Mon Feb 10 10:19:43 199BEST AVAILABLE COPM-468-011-2.rpr

۹,

eg"#

*****	(TM)	******
****		****
****		*****
******	[<u>_</u>]	*******
****		********
*******		*******
********		********
******		********
**************************************	<u> </u>	· 化多元基金 医克克克氏 医阿拉克氏 医多种性 医克克氏病 医阿拉克氏病 计算机 医克克氏病 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器

Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by IntelliGenetics, Inc.

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm Run on: Thu Feb 6 12:26:06 1997; MasPar time 21.99 Seconds Tabular output not generated.

ription: (1-541) from USO8468011.pep (1-542) from USO8468011.pep 4132 sequence: 1 MAWLGASLHVWGWLMLGSCL......DDILMEKPSRPMESNPDTEG 541

Scoring table: PAM 150 Gap 11

82182 seqs, 25727515 residues

Searched:

Post-processing: Minimum Match 0%
Listing first 45 summaries
Database: pir48
liann1 2:ann2 3:ann3 4:unann1 5:unann2 6:unann9 13:unenc
14:unann5 9:unann6 10:unann7 11:unann8 12:unann9 13:unenc

Statistics: Mean 48.841; Variance 115.276; scale 0.424

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		æ			SUMMARIES		
Result		Query					
NO.	Score	Match	Match Length	DB	ពួ	Description	Pred. No.
1	3721	90.1	550	: =	A57519	parathyroid hormone	0.00e+00
2	2051	49.6	585	Ξ	A39286	parathyroid hormone	0.00e+00
m	1966	47.6	591	14	A42698	parathyroid hormone	0.00e+00
4	1943	47.0	591	12	S44203		0.00e+00
S	1942	47.0	593	11	A49191	parathyroid hormone	0.00e+00
9	1931	46.7	593	1	S29610	parathyroid hormone	0.00e+00
7	1026	24.8	459	12	JH0594	vasoactive intestina	1.30e-150
80	1003	24.3	457	12	JN0604	vasoactive intestina	1.42e-146
σ	066	24.0	460	12	JC2194	vasoactive intestina	2.72e-144
10	983	23.8	495	12	JC2195	vasoactive intestina	4.59e-143
11	975	23.6	449	12	S16319	secretin receptor -	1.16e-141
12	964	23.3	440	14	JC2532	secretin receptor -	9.80e-140
13	907	22.0	437	12	JU0185	PACAP receptor subty	9.11e-130
14	900	21.8		12	839068	vasoactive intestina	1.52e-128
15	877	21.2		12	JC2463	vasoactive intestina	1.56e-124
16	863	20.9		12	A46172	glucagon-like peptid	4.28e-122
17	845	20.5	477	11	JC2041	glucadon receptor pr	5.81e-119
18	843	20.4	485	12	JQ1957		1.29e-118
19	825	20.0	463	11	S45707	GLP-1-receptor - hum	1.74e-115
20	818	19.8	463	11	JN0807	glucagon-like peptid	2.85e-114
21	816	19.7	485	12	JC4363	qlucadon receptor -	6.35e-114

2.31e-112 6.18e-110 4.97e-108 1.10e-107	1.43e-104 1.04e-103 3.45e-103 2.96e-100	8.89e-96 1.42e-94 7.88e-86 2.72e-84	2.986-75 2.856-75 4.386-74 5.426-67 2.556-66	2.55e-66 2.55e-66 8.16e-66 1.77e-65 1.23e-52 7.35e-23
gastric inhibitory p pituitary adenylate calcitonin receptor pituitary adenylate	growth hormone-relea growth hormone-relea calcitonin receptor calcitonin receptor	growth hormone-relea calcitonin receptor calcitonin receptor	rticotro rticotro rticolib suitary suitary	pliuitary adenylate pituitary adenylyl c pituitary adenylate pituitary adenylate growth hormone relea hypothetical protein
JC2462 JN0616 S34486 JN0902	A45367 A45363 S33747 S44209	S29753 S33746 A39285 JC2477	539534 839535 839063 836114 839061	A48204 S39060 S33449 S47631 S29754 S23242
				495 12 523 14 381 12 513 14 464 12 206 10
19.5 19.2 18.9	18.4 18.3 18.2 17.8	17.2 17.0 15.8 15.6	13.00	13.0 12.9 11.0 6.5 6.5
807 793 782 780	762 757 754 737	711 704 653 644	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50 50 50 50 50 50 50 50 50 50 50 50 50 5
22 23 24 25	222 284 288	33710		44444 0112648

RESULT 1 ENTRY ENTRY ENTRY PAS7519 #type complete PACENDAL DATE DEACHING NUMBER SECONDAL STREENATE NAMES RETERNATE NAMES PH2 receptor 08-Dec-1995 #sequence_revision 08-Dec-1995 #text_change 08-Dec-1995 A57519 A57519 A57519 A57519 A57519 A57519 A57519 A57519 #title #accession A57519 #saccession A57519 #saccession A57519 #status Preliminary #status #status Preliminary #fresidues #fresidues #copport #co	#MOJECULAI-Weight 02235 #Checksum FROCECKSUM 5: Score 3721; DB 11; Length 550; Pred. NO. 0.00e+00; 2 18; Mismatches 26; Indels 2 18; Mismatches 26; Indels 2 11
--	---

```
ppattnghsqlpgh-akpgapatetetlpvtmavpkddg 560
                                                                                                                                                                                                                                                                                                                                                                     ##residues 1-591 ##label ABO ##cross-references NCBIP:92187
                                                                                                                                                                                                                                                                                                                                                              ##molecule_type nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                          / Match
Local Similarity 53.2%;
                                                                                                                                                                          17-Nov-1994
A42698
                                                                                                                            A42698
                                                                                                                                                                                                   A42698
                                                                                                                                                                                                                                                                                                                                         A42698
                                                                                                                                                                                                                                                                                                                                                                                                                                               244;
                                                                                                                                                                                                                                                                                                                               #contents
#accession
##status
                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 24
                                                                                                                                                                                                                                                                                                                                                                                            ##note
                                                                                                                 e
                                                                                                                                                                                                                                                        #journal
#title
                                                                                                                                                                                                            #authors
                                                                                                                                                                                        ACCESSIONS
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                     459
                                          419
                                                                                  479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         466
                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                      SUMMARY
                                                                                                                  RESULT
ENTRY
                                                                                                                                      TITLE
                                                                                                                                                                      DATE
                 g
                                        ò
                                                             ద
                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                Jueppner, H.; Abou-Samra, A.B.; Freeman, M.; Kong, X.F.; Schipani, E.; Richards, J.; Kolakowski Jr., L.F.; Hock, J.; Potts Jr., J.T.; Kronenberg, H.M.; Segre, G.V. Science (1991) 254:1024-1026
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10;
                                                                                                                                                                                                                                                                                                                                                                                                                                     preliminary; not compared with conceptual translation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             420
                                                                                                      480
                                                                                                                                                                                                                                                                parathyroid hormone-related peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ECNCFPEWDGLICWPRGTVGKISAVPCPPYIYDFNHKGVAFRHCNPNGTWDFMHSLNKTW 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   anysecvkfltnetr-erevf-drlgmiytvgysislgsltvavlilgyfrrlhctrnyi 219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hmhlfvsfmlravsifikdavlysgvstdeier-iteeelraftepppadkagfvgcrva 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           dgfclpewdnivcwpagvpgkvvavpcpdyfydfnhkgrayrrcdsngswelvpgnnrtw 161
                                                                                                                                                                                                                                                                                    #formal_name Didelphis virginiana, Didelphis marsupialis virginiana #common_name North American opossum 24.7an.1992 #sequence_revision 24.7an.1992 #text_change 30.5ep.1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                  vtvflyflttnyymilveglylhslifmaffsekkylwgftlfgwglpavfvavwvtvra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VMFIYFLATNYYWILVEGLYLHNLIFVAFFSDTKYLWGFILIGWGFPAAFVAAWAVARAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A G protein-linked receptor for parathyroid hormone parathyroid hormone-related peptide.
A39286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #checksum 8339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 585;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ##cross-references GB:M74445

YY #length 585 #molecular-weight 66007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      106; Mismatches 87;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 2051; DB 11;
Pred. No. 0.00e+00;
                                                                                                                                                                                                                                                      A39286 #type complete
parathyroid hormone / para
North American opossum
                                                                                                                                                                                                                                                                                                                                                                                                                                               ##molecule_type mRNA
##residues 1-585 ##label JUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ouery Match
Best Local Similarity 55.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      250; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                 *cross-references
                                                                                                                                                                                       eg 541
                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                      ##status
                                                                                                                                                                                                                                                                                                                                                                                                                          *accession
                                                                                                                                                                                                      _
음
-
                                                                                                                                                                                                                                                                                                                                                   #authors
                                                                                                                                                                                                                                                                                                                                                                                #journal
                                                                                                                                                                                                                                                                                                                             ACCESSIONS
REFERENCE
                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   300
                                                              361
                                                                                  361
                                                                                                                                                                                        540
                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               339
                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         399
                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ARY
                                                                                                                                                                                                                                             RESULT
                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                                                                                                                                                         DATE
                 g
                                        ò
                                                          요
                                                                                 ò
                                                                                                    g
                                                                                                                          ò
                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           පි
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
```

```
Abou-Samra, A.B.; Juppner, H.; Force, T.; Freeman, M.W.;
Kong, X.F.; Schipani, E.; Urena, P.; Richards, J.;
Bonventre, J.V.; Potts Jr., J.T.; Kronenberg, H.M.; Segre,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10;
                                                                                                                                                                                                                                                                                                                          parathyrold hormone and parathyrold hormone-related peptide receptor, PTH/PTHrP receptor - rat #formal_name Rattus norvegicus #common_name Norway rat 04-Mar-1993 #sequence_revision 04-Mar-1993 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Expression cloning of a common receptor for parathyroid hormone and parathyroid hormone-related peptide from rat osteoblast-like cells: a single receptor stimulates intracellular accumulation of both cAMP and inositol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                preliminary; not compared with conceptual translation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240
360 KLAKSTLVLVLVFGVHYIVFVCLPHS-FTGLGWEIRMHCELFFNSFQGFFVSIIYCYCNG 418
                                                  513
                                                                            122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             420 VQAEVKKMWSRWNLSVDWKRTPPCGSRRCGSVLTTVTHSTSSQSQVAAAHAWCLSLA-KL 478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              108 clpewdnivcwplgapgevvavpcpdyiydfnhkghayrrcdrngswevvpghnrtwany 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             evgaelkkswsrwtlaldfkrkarsgsstysyg-pmvsh-tsv-tnvgp-rg-glalsls
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 226 mflsfmlraasifvkdavlysgftldeaerlteeelhilagvpppaaaavgyagcrvav
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              lantgcwdlssghkkwiiqvpilasvvlnfilfiniirvlatklretnagrcdtrqqyrk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     63 CFPEWDGLICWPRGTVGKISAVPCPPYIYDFNHKGVAFRHCNPNGTWDFMHSLNKTWANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vgaeirkswsrwtlaldfkrkarsgsssysyg-pmvsh-tsv-tnvgpraglslplsprl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         47.6%; Score 1966; DB 14; Length 591;
larity 53.2%; Pred. No. 0.00e+00;
Conservative 100; Mismatches 105; Indels 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Proc. Natl. Acad. Sci. U.S.A. (1992) 89:2732-2736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence extracted from NCBI backbone #length 591 #molecular-weight 66188 #checksum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            trisphosphates and increases intracel
                                                                                                                                                 514 prlapgagasanghhqlpgyvkhgsisenslps 546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #cross-references MUID:92212903
#contents ROS 17/2.8 osteosarcoma cells
                                                                                                                                                                                                PRSPADSLIATSLYLAMSG-VTQSRTASHTLST
                                                                                                                                                                                                                                                                                                          #type complete
```

m

9

; 9

#accession

\RY

63

å 셤 ò

108

123

226

셤

à 셤 ò 346 301 406

셤 ò a

168

#authors

ACCESSIONS

ORGANISM

DATE

RESULT

REFERENCE

6501

345

479

.50

```
lantgcwdlssgnkkwiigvpilasivlnfilfinivrvlatklretnagrcdtrqqyrk 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      secvkfltnetr-erevf-drlgmiytvgysvslasltvavlilayfrrlhctrnyihmh 225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           clpewdhilcwplgapgevvavpcpdyiydfnhkghayrrcdrngswelvpghnrtwany 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    108 clpewdhilcwplgapgevvavpcpdyiydfnhkghayrrcdrngswelvpghnrtwany 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Schneider, H.; Feyen, J.H.; Rao Movva, N. submitted to the EMBL Data Library, October 1992 Cloning and functional expression of a human parathyroid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #text_change
                                                                                                                                                                                                                                                                                                                                                                                           226 lflsfmlravsifvkdavlysgatldeaerlteeelraiagappppataaagyagcrvav
                                                                                                                                                                                                                                                                                                                                                                                                                                                               tfflyflatnyywilveglylhslifmaffsekkylwgftvfgwglpavfvavwvsvrat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       llkstlvlmplfgvhyivfmatpytevsgtlwgvqmhyemlfnsfqgffvaijycfcnge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #checksum 6406
                                                                                                                                                                                  Length 593;
                                                                                                                                                  #checksum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 593;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               parathyroid hormone receptor - human #formal_name Han 06-Jan-1995 #sequence_revision 06-Jan-1995 06-Jan-1995
                                                                                                                                  backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sequence extracted from NCBI bac
#length 593 #molecular-weight 66360
                                                                                                                                                                                                                   80;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           vgaeikkswsrwtlaldfkrkarsgsssysyg-pmvshts 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #length 593 #molecular-weight 66348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 1931; DB 11;
Pred. No. 0.00e+00;
80; Mismatches 80;
                                                                                                                                                                                Score 1942; DB 11;
Pred. No. 0.00e+00;
79; Mismatches 80;
                                                         ##status preliminary
##molecule_type nucleic acid
##residues
1 -593 ##label SCH
##cross-references NCBIN:130233; NCBIP:130234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #type complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ##molecule_type_mRNA
##residues 1-593 ##label SCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ##cross-references EMBL:X68596
peptide receptor.
taccesion A49191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hormone receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 58.5%;
Matches 234; Conservative
                                                                                                                                                                                Query Match 47.0%;
Best Local Similarity 58.8%;
Matches 235; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            S29610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ##status
                                              #accession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #accession
                                                                                                                                   #note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         168
                                                                                                                                                                                                                                                     108
                                                                                                                                                                                                                                                                                                                        168
                                                                                                                                                                                                                                                                                                                                                          123
                                                                                                                                                                                                                                                                                                                                                                                                                             183
                                                                                                                                                                                                                                                                                                                                                                                                                                                               286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                  SUMMARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUMMARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   名
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                              submitted to the EMBL Data Library, April 1994
Expression pattern of parathyroid hormone/parathyroid hormone related peptide mRNA in mouse postimplantation embryos indicates involvement in multiple developmental processes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a human
                                                                                                                                                                                                                     ..
[4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hipani, E.; Karga, H.; Karaplis, A.C.; Potts Jr., J.T.;
Kronenberg, H.M.; Segre, G.V.; Abou-Samra, A.B.; Juppner,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mflsfmlraasifvkdavlysgftldeaerlteeelhiiaqvppppaaaavgyagcrvav 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          183 LFVSFMLRATSIFVKDRVVHAHIGVKELESLIMQD-DPQNSIEATSVDKS-QYIGCKIAV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               lantgcwdlssghkkwiigvpilasvvlnfilfiniirvlatklretnagrcdtrggyrk 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      clpewdnivcwplgapgevvavpcpdyiydfnhkghayrrcdrngswevvpghnrtwany 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   seclkfmtnetr-erevf-drlgmiytvgysmslasltvavlilayfrrlhctrnyihmh 225
                                                                                                                                                                                                                 Karperien, M.; van Dijk, T.B.; Hoeljmakers, T.; Cremers,
Abou-Samra, A.B.; Boonstra, J.; de Laat, S.W.; Defize,
                                                                                            S44203 *type complete
parathyroid hormone-related peptide receptor - mouse
#formal_name Mus musculus *common_name house mouse
13.7an-1995 *sequence_revision 13.7an-1995 *text_change
03.Mar-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A49191 *type complete
parathyroid hormone related peptide receptor - human
#formal_name Homo sapiens #common_name man
19.Dec-1993 #sequence_revision 18.Nov-1994 #text_change
04-Dec-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entical complementary deoxyribonucleic acids encode a renal and bone parathyroid hormone (PTH)/PTH-related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              llrstlvlvplfgvhytvfmalpytevsgtlwqiqmhyemlfnsfqgffvailycfonge
                                                                                                                                                                                                                                                                                                                                                                                                                               671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 591;
                                                                                                                                                                                                                                                                                                                                                                                                                             #checksum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 1943; DB 12;
Pred. No. 0.00e+00;
77; Mismatches 74;
                                                                                                                                                                                                                                                                                                                                                                                                       ##cross-references EMBL:X78936
:Y #length 591 #molecular-weight 66313
                       517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Endocrinology (1993) 132:2157-2165
       vgaeirkswsrwtlaldfkrkarsgs 491
                                                                                                                                                                                                                                                                                                                                                                                       1-591 ##label KAR
                                                                                                                                                                                                                                                                                                                                                        preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 47.0%;
Best Local Similarity 59.6%;
Matches 230; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A49191
Schipani,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identical
                                                                                                                                                                                                                                                                                                                                                                         ##molecule_type mRNA
                                                                                                                                                                                                                                                                                                                                      S44203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A49191
                                                                                                                                                                                                                                                                                                                                                                                           ##residues
                                                                                                                                                                                                                                                                                    description
                                                                                                                                                                                                                                                                     #submission
```

; 9

.. 6

'n

420

466

용

#authors

ACCESSIONS

ORGANISM

#journal

```
58,69,100,290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #accession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ##note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #authors
#journal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSIONS
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        216-240
255-276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        293-316
342-361
374-393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE
135-157
175-194
 <u>თ</u>
                                                                                                                                                                 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                              419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
ORGANISM
DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #title
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT
ENTRY
                           g
                                                                                           셤
                                                                                                                             ŏ
                                                                                                                                                             g
                                                                                                                                                                                               ò
                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                              οχ
                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pei, L.; Melmed, S.
Blochem. J. (1995) 308:719-723
Characterization of the rat vasoactive intestinal polypeptide
receptor gene 5' region.
S56014
                                                                                                                                                                                                                                                                                                                                                                                                                                         JHO594; S56014
JHO594
Ishihara, T.; Shigemoto, R.; Mori, K.; Takahashi, K.; Nagata,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the translation of the nucleotide sequence is not given glycoprotein; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #product vascactive intestinal polypeptide receptor
#status predicted #label MAT\
#domain transmembrane #label TMA\
#domain transmembrane #label TMS\
#domain transmembrane #label TMA\
#binding_site carbohydrate (Asn) (covalent) #status
predicted
#length 459 #molecular-weight 52057 #checksum 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIG
 282
                                                                                                                                                                                             406 llkstlvlmplfgvhylvfmatpytevsgtlwqvqmhyemlfnsfqgffvailycfcnge 465
                                                                                                                               346 lantgcwdlssgnkkwiiqvpilasivlnfilfinivrvlatklretnagrcdtrqqyrk 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                 vasoactive intestinal peptide receptor precursor - rat vermal_name Rattus norvegicus #common_name Norway rat 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 08-Feb-1996
                                                                                                                                                 226 lflsfmlravsifvkdavlysgatldeaerlteeelraiagappppataaagyagcrvav
                  286 tfflyflatnyywilveglylhslifmaffsekkylwgftvfgwglpavfvavwvsvrat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #label
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 24.8%; Score 1026; DB 12; Length 459; Best Local Similarity 40.1%; Pred. No. 1.30e-150; Matches 177; Conservative 94; Mismatches 126; Indels 44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #journal Neuron (1992) 8:811-819
#title Functional expression and tissue distribution of receptor for vasoactive intestinal polypeptide.
#cross-references MVID:92232309
#accession JH0594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           domain signal sequence #status predicted
                                                                                                                                                                                                                                                                                  420 VQAEVKKMMSRWNLSVDWKRTPPCGSRRCGSVLTTVTHST 459
                                                                                                                                                                                                                                                                466 vgaeinkcwsrwtlaldfkrkarsgsssysyg-pmvshts 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ##residues 1-459 ##label ISH
##cross-references GB:M86835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ##residues 1-26 ##label PEI
##cross-references EMBL:U10635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ##experimental_source lung
NCE S56014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ##molecule_type mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ##molecule_type DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    376-395
58,69,100,292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #accession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ournal
                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSIONS
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        146-168
176-195
218-241
256-277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         295-318
                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           itle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        344-363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-459
                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUMMARY
                                                                                                                                                                                                                                                                                                                                              RESULT
                                                                                                                                                                                                                                                                                                                                                                                                           DATE
                                                                                                                           셤
                                                                                                                                                                                             윱
음
                              ò
                                                           a
                                                                                             ò
                                                                                                                                                               à
```

```
Sreedharan, S.P.; Patel, D.R.; Huang, J.X.; Goetzl, E.J. Blochem. Blophys. Res. Commun. (1993) 193:546-553 Cloning and functional expression of a human neuroendocrine vasoactive intestinal peptide receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hmhlfmsfilratavfikdmalf-nsg----e--i---d-hcs-ea-sv-----gckaa 219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 300 TLADARCWE-LSAGDIKWIYQAPILAAIGLNFILFLNTVRVLATKIWETNAVGHDTRKQY 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   339 srlakstllliplfgihyvmfaffpdnfka---qvkmvfelvvgsfggfvvailycflng 395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cskmwdnltcwpatprggvvvlacplifklfssiggrnvs-rsctdeg-wt--h-le-p- 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               63 CFPEWDGLICWPRGIVGKISAVPCPP-Y-IYDFNH-KGVAFRHCNPNGTWDFMHSLNKTW 119
                                                                                                                                                                        65 kmwdnltcwpttprggavvldcp-lifqlfapihgynisrscteeg-ws--q-lepg-py 118
                                                                                                                                                                                                                                                                                                                                                                                                      hiacglndrassldeqqqtkfyntvktgytigyslslasllvamailslfrklhctrnyi 178
                                                                                                                                                                                                                                                                                    65 PEWDGLICWPRGTVGKISAVPCPPYIYD-FNH-KGVAF-RHCNPNGTWDFMHSLNKTWAN 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #domain transmembrane #label TMI\
#domain transmembrane #label TMZ\
#domain transmembrane #label TM3\
#domain transmembrane #label TM4\
#domain transmembrane #label TM4\
#domain transmembrane #label TM6\
#domain transmembrane #label TM7\
#blding_site carbohydrate (Asn) (covalent) #status
predicted #molecular-weight 51547 #checksum 9283
#length 457 #molecular-weight 51547 #checksum 9283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 splpar-wlcvlag-alawalgpaggaarlqeecdyvqmievqhkqcleeaqlenetig 62 ::| ::| ::| ::| ::| ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| | ::| |
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  UNO604 *type complete vasoactive intestinal peptide receptor - human *formal_name Homo sapiens *common_name man 31.Dec-1993 *sequence_revision 31-Dec-1993 *text_change 27-Jan-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              280 yfedfgcwdtiinsslwwiikapillsilvnfvlficiirilvgklrppd-igkndsspy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              glycoprotein; hormone receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 457;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nucleotide sequence is not given
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 24.3%; Score 1003; DB 12;
Best Local Similarity 38.4%; Pred. No. 1.42e-146;
Matches 170; Conservative 103; Mismatches 128;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ##residues 1-457 ##label SRE
##cross-references GB:L13288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       396 evgaelrrkwrrwhlggvlgw 416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ||||||::::| ||:| :| |
EVQAEVKKMWSRWNL-SV-DW 437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ##molecule_type mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
```

28;

8 hvr-wlcvlagalacalrpagsgaaspgheceylqlieiqrgqc-le-eaglenettgcs 64

'n

```
#accession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #journal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      211-229
251-269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    334-354
381-398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            180-203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             290-312
                                                                                                              63
                                                                                                                                                                      116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32-495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DATE
                                                    g
                                                                                                              ò
                                                                                                                                                                ద
                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        å
                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Couvineau, A.; Rouyer-Fessard, C.; Darmoul, D.; Maoret, J.J.; Carrero, I.; Ogier-Denis, E.; Laburthe, M. Biochem. Biophys. Res. Commun. (1994) 200:769-776 Human intestinal VIP receptor: cloning and functional expression of two CDNA encoding proteins with different N-terminal domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *domain signal sequence #status predicted #label SIG\ #product vasoactive intestinal peptide receptor #label
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  kinase A) #status predicted\
#binding_site phosphate (Ser) (covalent) (by protein kinase A) #status predicted\
#binding_site phosphate (Ser) (covalent) (by protein #binding_site phosphate (Ser) (covalent)
                                                    177
                                                                                                              216
                                                                                                                                                                   237
                                                                                                                                                                                                                                                    |:| | | : : |::|:|||||||| | : ||:||| | |::| ||:|| | ::| | |::| | |::| | |::| | |::| | |::| | |::| | |::| | |::| | |::| | |::| |::| | |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::
                                                                                                                                                                                                                                                                                                                                            332
                                                                                                                                                                                                                                                                                                                                                                predicted\
#binding_site phosphate (Thr) (covalent) (by protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #domain transmembrane #status predicted #label TMI\
#domain transmembrane #status predicted #label TMZ\
#domain transmembrane #status predicted #label TM3\
#domain transmembrane #status predicted #label TM4\
#domain transmembrane #status predicted #label TM5\
#domain transmembrane #status predicted #label TM5\
#domain transmembrane #status predicted #label TM5\
#domain transmembrane #status predicted #label TM6\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #binding_site carbohydrate (Asn) (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JC2194 #type complete
vasoactive intestinal peptide receptor precursor (clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #formal_name Homo sapiens #common_name man
28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change
09-Mar-1996
                                gpypiacglddkaasldegqtmfygsvktgytigyglslatllvatailslfrklhctrn
                                                                                                                                        rihfedygcwdtinsslwwiikgpiltsilvnfilficiirillgklrppdirksdss-p
                                                                                                           yihmhlfisfilraaavf-----i--kdl-alf--dsge-s-dgcs-egs--vgck
                                                                                                                                                                                                                                                                                                                                                                                                                                               ysrlarstllliplfgvhyimfaffpdnfkp---evkmvfelvvgsfqgfvvailycfln
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                kinase C) #status predicted
460 #molecular-weight 51929 #checksum 1116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 990; DB 12; Length 460; Pred. No. 2.72e-144;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ##cross-references EMBL:X75299
##experimental_source jejunal epithelial cell
iDS glycoprotein; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1-460 ##label COU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gevqaelrrkwrrwhlqgvlgwn 415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hIVR8) - human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 24.0%;
Best Local Similarity 38.3%;
Matches 171; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JC2194; S38397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #length 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ##molecule_type mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ##residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             58, 69, 100, 293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #accession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSIONS
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |journal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             76-194
216-234
255-277
299-319
346-363
                                                                                                                                                             178
                                                                                                                                                                                                                                                                                                                                                                                          298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1-30
31-460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   45-168
116
                                                    120
                                                                                                           176
                                                                                                                                                                                                                    217
                                                                                                                                                                                                                                                                                                                                277
                                                                                                                                                                                                                                                                                                                                                                                                                                                  336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #title
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUMMARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ENTRY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                    ö
                                                                                                     g
                                                                                                                                                             ò
                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                          Ω
                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
#domain signal sequence #status predicted #label SIG\
#product vasoactive intestinal peptide receptor-related
protein #label MAT\
#formain transmembrane #status predicted #label TMI\
#domain transmembrane #status predicted #label TMF\
#binding_site carbohydrate (Asn) (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ٦.٦.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Couvineau, A.; Rouyer-Fessard, C.; Darmoul, D.; Maoret, J. Carrero, I.; Ogier-Denis, E.; Laburthe, M. Blochem. Blophys. Res. Commun. (1994) 200:769-776

Human intestinal VIP receptor: cloning and functional expression of two cDNA encoding proteins with different
                                                                                                        cskmwdnltcwpatprgqvvvlacplifklfssiqgrnvs-rsctdeg-wt--h-le-p- 115
                                                                                                                                               CFPEWDGLICWPRGTVGKISAVPCPP-Y-IYDFNH-KGVAFRHCNPNGTWDFMHSLNKTW 119
                                                                                                                                                                                                                                      gpypiacglddkaasldegqtmfygsvktgytigyglslatllvatailslfrklhctrn 175
                                                                                                                                                                                                                                                                                176 yihmhlfisfilraaavf-----i--kdl-alf--dsge-s-dqcs-egs--vgck 216
                                                                                                                                                                                                                                                                                                                                                                                                              217 aamviiqycvmaniiwllveglylytllavsiiserkyiwgyiligwgvpstitmvwtia 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rihfedygllrcwdtinsslwwiikgpiltsilvnfilficiirillqklrppdirksds 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    s-pysrlarstll1plfgvhyimfaffpdnfkp---evkmvfelvvgsfggfvva11yc 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | :||:||:|| :||:|| 355 RKQYRKLAKSTLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSFGGFFVSIIYC 414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #binding_site phosphate (Thr) (covalent) (by protein
#text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JC2195 #type complete
vasoactive intestinal peptide receptor-related protein
precursor (clone hivR5) - human
#formal_name Homo sapiens #common_name man
28-Amy-1985 #sequence_revision 07-oct-1994 #text_change
09-Mar-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (covalent) (by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ##experimental_source jejunal epithelial cell
DS 91ycoprotein; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 kinase A) #status predicted\
#binding_site phosphate (Ser) (
kinase A) #status predicted\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   flngevgaelrrkwrrwhlqgvlgwn 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : |||||||||::::| ||:| :| |:
415 YCNGEVQAEVKKMWSRWNL-SV-DWK 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ##residues 1-495 ##label COU
##cross-references EMBL:X77777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   predicted\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ##molecule_type mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             412-431
93,104,135,328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ##residues
```

#length 495

SUMMARY

30;

Gaps

5 splpar-wlcvlag-alawalgpagggaarlgeecdyvqmievqhkqcleeaqlenetig 62

셤

Conservative 104; Mismatches 126; Indels 45;

```
246 FLAINYWILVEGLYLHNLIEVAFFSDTKYLMGFILIGWGFPAAFVAAWAVARATLADAR 305
KIAVVMFIYFLATNYYWILVEGLYLHNLIFVAFFSDTKYLWGFILLIGWGFPAAFVAAWAV 296
                                                                                                                     356 KQYRKLAKSTLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSFQGFFVSIIXCY 415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              70 wdniscwpssvpgrmvevecprflrmltsrngslfrnctqdg-ws--etfpr--pnla-c 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cimanyswllveglylhtllaisffserkylqgfvafgwgspaifvalwaiarhfledvg 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JU0185 #type complete
PACAP receptor subtype 3 - mouse
#formal_name Mus musculus #common_name house mouse
28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change
J3-Mar-1995
JU0185
                                                                                                                                                                                                                                                                                      secretin receptor - Human
#formal_name Homo sapiens #common_name man
09-May-1995 #sequence_revision 09-May-1995 #text_change
09-May-1995
                                                                                                                                                                                                                                                                                                                                                                                          Blochem, Blophys. Res. Commun. (1995) 207:883-890 Molecular cloning and functional expression of a human pancreatic secretin receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nhykrlakstllliplfgihyivfa-fspe-dam--evqlffelalgsfgglvvavlycf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               67 WDGLICWPRGTVGKISAVPCPPYIYDF-NHKGVAFRHCNPNGTWDFMHSLNKTWANYSDC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                124 avnvndssnekrhsyllklkvmytvgyssslvmllvalgilcafrrlhctrnyihmhlfv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  trhflentgcwdinanasvwwvirgpvilsilinfiffinilrilmrklrtgetrgset-
                                                    184 sfilralsnfikd---a---v----lfssddvtyc-da---hra---gcklvmvlfqy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    306 CWELSA-GDIKWIYQAPILAAIGLNFILFLNTVRVLATKIWETNAVGHDTRKQYRKLAKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #checksum 7684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 964; DB 14; Length 440;
Pred. No. 9.80e-140;
87; Mismatches 93; Indels 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ##cross-references EMBL:U20178

Y #length 440 #molecular-weight 50234
                                                                                                                                                                                                                                                                        #type complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          preliminary
1-440 ##label JIA
                                                                                                                                                                    391 Ingevqlevqkkwrqwhl 408
                                                                                                                                                                                      416 CNGEVQAEVKKMWSRWNL 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 23.3%;
Best Local Similarity 42.5%;
Matches 157; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |:|:|:|
425 KKMWSRWNL 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      qkkwqqwhl 408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ##residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ##status
                                                                                                                                                                                                                                                                                                                                                                                                                                                            #accession
                                                                                                                                                                                                                                                      12
                                                                                                                                                                                                                                                                                                                                                                                                          #journal
#title
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13
                                                                                                                                                                                                                                                                                                                                                                                          authors
                                                                                                                                                                                                                                                                                                                                                       ACCESSIONS
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSIONS
                                 276
                                                                                                   335
                                                                  297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUMMARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
ENTRY
                                                                                                                                                                                                                                                        RESULT
                            ద
                                                                                                셤
                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ά
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                ò
                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                     à
                                                  27;
                                                                                                     295
                                                                                                                                                                                                                                                                                                                                                                          339 VLATKIWETNAVGHDTRKQYRKLAKSTLVLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCE 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     r--pdla-cgvninnsfnerrhayllklkvmytvgyssslamllvalsilcsfrrlhctr 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         qc-le-eaqlenetigcskmwdnltcwpatprgqvvvlacplifklfssiggrnvs-rsc 140
                                                                                                                                                                                                                                     222 SIEATSVDKSQYIGCKIAVVMFIYFLATNYYWILVEGLYLHNLIFVAFFSDTKYLWGFIL 281
                                                                                                                                                                                                                                                                                                                                                       19wgvpstftmvwtlarihfedygllrcwdtinsslwwiikgpiltsilvnfilficiir 355
                                                                                                                                                                                                                                                                                                                                                                                                                        356 illqklrppdirksdss-pysrlarstllliplfgvhyimfaffpdnfkp---evkmvfe 411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   etasgceglwdnmscwpssapartvevqcpkfllmlsnkngslfrnctqdg-ws--etfp 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EGEGNCFPEWDGLICWPRGTVGKISAVPCPPYIYDFNHK-GVAFRHCNPNGTWDFMHSLN 116
                                                                                                                                                    141 tdeg-wt--h-le-p-gpyplacglddkaasldeqqtmfygsvktgytigyglslatllv 194
                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            secretin receptor - rat
#formal_name Rattus norvegicus #common_name Norway rat
13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change
13-Jan-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Si6319
Ishihara, T.; Nakamura, S.; Kaziro, Y.; Takahashi, T.;
Takahashi, K.; Nagata, S.
EMBO J. (1991) 10:1635-1641
Wolecular cloning and expression of a cDNA encoding th
secretin receptor.
                                                                                                                                                                                                                   195 atailsifrkihctrnyihmhlfisfilraaavf-----i--kdl-alf--dsge-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nyihmhlfvsfilralsnfikd----a---v---lfssddvtyc-da---hk---vgc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       :| | ::|::|::|::|| 104 NPUGTWDFWHSLNKTWANYS-DC-LRFLQPDISIGKQEFCERLYVMYTVGYSISFGSLAV
                                                                                                                                                                                                                                                                                      s-dgcs-egs--vgckaamvffgycvmanffwllveglylytllavsffserkyfwgyll
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 23.6%; Score 975; DB 12; Length 449; Best Local Similarity 40.7%; Pred. No. 1.16e-141; Matches 154; Conservative 97; Mismatches 95; Indels 32;
                                                  42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ##cross-references EMBL:X59132
X #length 449 #molecular-weight 51234 #checksum
                 Length 495;
                                                 91; Mismatches 107; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          412 lvvgsfqgfvvailycflngevqaelrrkwrrwhlqgvlgwn 453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. 4.59e-143;
                 DB 12;
                 Score 983;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #type complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1-449 ##label ISH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #cross-references MUID:91266890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ##molecule_type mRNA
##residues
              .ch 23.8%;
il Similarity 40.3%;
162; Conservative
                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S16319
                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #accession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ournal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSIONS
                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          399
                                               Matches
                                                                                  84
                                                                                                                                                                                                                                                                                                                                                     296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               title
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
ORGANISM
DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                   ð
                                                                                                                                                 윱
                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

Gaps 16;

185

224

245

343

```
22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22;
   Υ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lutz, E.M.; Sheward, W.J.; West, K.M.; Morrow, J.A.; Fink, G.; Harmar, A.J.
FEBS Lett. (1993) 334:3-8
The VIP(2) receptor: molecular characterisation of a CDNA encoding a novel receptor for vasoactive intestinal
                                                                                                                                                                                                                                                                                                                         C-ELNITAQLQEGEGNCFPEWDGLICWPRGTVGKISAVPCPPYIYDFNHK-GVAFRHCNP 105
                                                                                                                                                                                                                                                                                                                                                             95 dg-ws--etfpd-fid-a-c-gyndpe-deskisfyilvkaiytlgysvslmslttgsii 146
                                                                                                                                                                                                                                                                                                                                                                                                  165
                                                                                                                                                                                                                                                                                                                                                                                                                                   196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Inagaki, N.; Yoshida, H.; Mizuta, M.; Mizuno, N.; Fujii, Gonoi, T.; Myazaki, J.; Seino, S.
submitted to JIPID, February 1994
Cloning and functional characterization of a third PACAP
receptor subtype expressed in insulin-secreting cells.
                                                                                                                                                                                                                                                                                        94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cael-lssqm-enhracsgvwdnitcwrpadigetvtvpcpkvfsnfysrpgniskncts 94
                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #type complete vasoactive intestinal peptide receptor VIP2 precursor - #formal_name Rattus norvegicus #common_name Norway rat 07-0ct-1994 #sequence_revision 10-Nov-1995 #text_change 10-Nov-1995
                                                                                                                                                                                                                                                                                                                                                                                   147 iclfrklhctrnyihlnlflsfmlraisvlvkdsvlysssgl--lrc---hdqp----a
                                                                                                                                                                                                                                                                                                                                                                                                                                                      250 ipsveigawtatrlsledtgcwdtndhsipwwvirmpilisivvnfalfisivrillgkl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   310 -tspdvggndqsqykrlakstllliplfgvhymvfaafpigiss-tyqi-lf-elcvgsf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      345 WETNAVGHDTRKQYRKLAKSTLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSF
                                                                                                                                                                                                                                                                                        cael-lssq-tengracsgvwdnitcwrpadvgetvtvpcpkvfsnfysrpgniskncts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ----s-wvgcklslvffqycimanfywllveglylhtll-vailppsrcflaylligwg
                                                                                                                                                                            #length 437 #molecular-weight 49473 #checksum 7275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ##cross-references EMBL: 225885
Y #length 437 #molecular-weight 49552 #checksum 7187
                                                                                                                                                                                                                                                     34;
                                                                                                                                                                                                                 Length 437;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 437;
                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                              Query Match 22.0%; Score 907; DB 12; Ls Best Local Similarity 38.5%; Pred. No. 9.11e-130; Matches 148; Conservative 101; Mismatches 101;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21.8%; Score 900; DB 12; L. 38.0%; Pred. No. 1.52e-128; vative 101; Mismatches 103;
                                                                                                                          ##residues 1-437 ##label INA
##experimental_source strain C57BL/6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1-437 ##label LUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1|: |:::||: |::||: |
405 QGFFVSIIYCYCNGEVQAEVKKMW 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          366 gglvvavlycflnsevgcelkrrw 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                         ##molecule_type protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  peptide.
S39069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ##molecule_type mRNA
                                                                                                                                                             receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
nes 146; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       S39069
S39069
                                                                                       300185
                                                                                                                          ##residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ##residues
                                                       #description
                                   #submission
                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                         taccession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      #accession
   #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #journal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SSIONS
                                                                                                                                                                                                                                                                                      37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Loca
Matches
                                                                                                                                                                                                                                                                                                                         48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #t1tle
                                                                                                                                                            KEYWORDS
                                                                                                                                                                            SUMMARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ENTRY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DATE
                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ΩD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
Svoboda, M.; Tastenoy, M.; Van Rampelbergh, J.; Goossens, J.F.; De Noef, P.; Waelbroeck, M.; Robberecht, P. Blochem. Blophys. Res. Commun. (1994) 205:1617-1624 Molecular cloning and functional characterization of a human
                                                                                                                                                                                                                                                                                                 365
 dg-ws--etfpd-fid-a-c-gyndpe-deskitfyilvkaiytlgysvslmslttgsli 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #domain transmembrane #status predicted #label TM1\
#domain transmembrane #status predicted #label TM2\
#domain transmembrane #status predicted #label TM3\
#domain transmembrane #status predicted #label TM3\
#domain transmembrane #status predicted #label TM5\
#binding_site carbohydrate (Asn) (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      wrpanvgetvtvpcpkvfsnfyskagnisknctsdg-ws--etfpd-fvd-a-c-gysdp 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         e-deskitfyilvkaiytlgysvslmslatgsiilclfrklhctrnyihlnlflsfilra 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 uc2463 #type complete vasoactive intestinal peptide receptor - human #formal_name Homo sapiens #common_name man 21-Feb-1995 #sequence_revision 05-Apr-1995 #text_change 05-Jan-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                    226 TSVDKSQYIGCKIAVVMFIXFLATNYYMILVEGLYLHNLIFVAFFSDTKYLMGFILIGWG
                                                                                                                                                                                                                                                                                                                  345 WETNAVGHDTRKQYRKLAKSTLVLVLVEGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSF
                                                                                                                                              -g---s-wvgcklslvffqycimanfywllveglylhtll-vailppsrcflaylligwg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4 llppalltcwllapvnsihpecrfhleigeeetkctel-lrsg-tekhkacsgvwdnitc
                                                                       iclfrklhctrnyihlnlflsfmlraisvlvkdsvlysssgt--lrc---hdqp-----
                                                                                                                                                                                                                                                                                                 -tspdvggndqsqykrlakstllliplfgvhymvfaafpigiss-tyqi-lf-elcvgsf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 21.2%; Score 877; DB 12; Length 438; Best Local Similarity 36.3%; Pred. No. 1.56e-124; Matches 153; Conservative 111; Mismatches 121; Indels 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              predicted
#length 438 #molecular-weight 49503 #checksum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          glycoprotein; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VIP receptor from SUP-T1 lymphoblasts.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ##experimental_source SUP-Tl lymphoblast cell line
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ##residues 1-438 ##label SVO
##cross-references GB:L36566
                                                                                                                                                                                                                                                                                                                                                                                             qglvvavlycflnsevqcelkrrw 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ##molecule_type mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      329-349
361-384
58,88,92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       130-150
160-179
206-228
241-262
282-304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #journal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSIONS
                                  901
                                                                                                                                                196
                                                                                                                                                                                                                                                                                               310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         73
95
                                                                       147
                                                                                                                                                                                                                                                                                                                                                                        366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM
DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #title
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUMMARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ENTRY
                                ò
                                                                 ద
                                                                                                      ò
                                                                                                                                          셤
                                                                                                                                                                                 ò
                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
```

```
218 fwllveglylhtll-vamlpprrcflaylligwglptvcigawtaarlyledtgcwdtnd 276 :|:|||||||||||: : : ::|||||||||||| 252 YWILVEGLYLHNLIFVAFFSDTKYLWGFILIGWGFPAAFVAAWAVARATLADARCWELSA 311
                                                  393 r 393
                                                                                                                 430 R 430
oy
B
```

Search completed: Thu Feb 6 12:27:14 1997 Job time : 68 secs.

;;·

*****	(TM)	
****	' <u>-</u>	

******		******
*****		*****
*******		******
*******		*****
*************************************	<u>}</u>	

Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by Intelligenetics, Inc.

protein - protein database search, using Smith-Waterman algorithm Thu Feb 6 12:25:21 1997; MasPar time 17.41 Seconds 575.852 Million cell updates/sec MPsrch_pp Run on:

Tabular output not generated.

>US-08-468-011-2 (1-541) from US08468011.pep 4132 1 MAWLGASLHYWGWLMLGSCL......DDILMEKPSRPMESNPDTEG 541 iption: Perfect Score:

Sequence:

PAM 150 Gap 11 Scoring table:

52205 seqs, 18531385 residues Searched:

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

swiss-prot33
1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7
8:part8 9:part9 10:part10

Mean 50.887; Variance 95.964; scale 0.530 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		ø					
Result No.	Score	Query Match	° Query Match Length DB	DB	а	tion	Pred. No.
	3721	90.1	550	_	PIR2_HUMAN	PARATHYROID HORMONE R	0.00e+00
2	2057	49.8	585	7	PTRR_DIDMA	PARATHYROID HORMONE/P	0.00e+00
e	1966	47.6	591	7	PTRR_RAT	PARATHYROID HORMONE/P	0.00e+00
4	1943	47.0	591	7	PTRR_MOUSE	PARATHYROID HORMONE/P	0.00e+00
S	1942	47.0	593	7	PTRR_HUMAN	PARATHYROID HORMONE/P	0.00e+00
9	1026	24.8	459	თ	VIPR_RAT	VASOACTIVE INTESTINAL	9.02e-188
7	1003	24.3	457	σ	VIPR_HUMAN	VASOACTIVE INTESTINAL	9.92e-183
ω	975	23.6	449	ω	SCRC_RAT	SECRETIN RECEPTOR PRE	1.34e-176
0	964	23.3	440	ထ	SCRC_HUMAN	SECRETIN RECEPTOR PRE	3.40e-174
10	907	22.0	437	σ	VIPS_MOUSE	VASOACTIVE INTESTINAL	9.38e-162
11	006	21.8	437	σ	VIPS_RAT	VASOACTIVE INTESTINAL	3.14e-160
12	877	21.2	438	σ	VIPS_HUMAN	VASOACTIVE INTESTINAL	3.18e-155
13	863	20.9	463	4	GLPR_RAT	GLUCAGON-LIKE PEPTIDE	3.51e-152
14	845	20.5	477	4	GLR_HUMAN	GLUCAGON RECEPTOR PRE	2.84e-148
15	845	20.5		4	GLR_RAT	GLUCAGON RECEPTOR PRE	2.84e-148
16	828	20.0		4	GLPR_HUMAN	GLUCAGON-LIKE PEPTIDE	1.38e-144
17	807	19.5		4	GIPR_MESAU	GASTRIC INHIBITORY PO	4.86e-140
18	780	18.9	468	ဖ	PACR_HUMAN	PITUITARY ADENYLATE C	3.32e-134
19	782	18.9		~	CALR_HUMAN	CALCITONIN RECEPTOR P	1.23e-134
20	772	18.7		4	GIPR_HUMAN	GASTRIC INHIBITORY PO	1.77e-132
21	757	18.3	423	4	GRFR_HUMAN	GROWTH HORMONE-RELEAS	3.03e-129
22	753	18.2	451	4	GRFR_PIG	GROWTH HORMONE-RELEAS	2.20e-128

1.34e-128 1.16e-126 7.42e-119 7.42e-119 5.88e-107 8.43e-94 8.43e-94 1.23e-93 1.19e-64 2.48e-36 1.64e-14 2.48e-36 1.64e-14 2.48e-36 1.64e-14 2.48e-03 2.81e-03 3.76e-01 3.76e-01
CALCITONIN RECEPTOR B GASTRIC INHIBITORY PO GROWTH HORMONE-RELEAS CALCITONIN RECEPTOR A CORTICOTROPIN RELEASI PIULTARY ADENYLATE C GROWTH HORMONE-RECEASI DIURETIC HORMONE RECEPTOR MELATONIN RECEPTOR BASIC JUVENILE HORMON SUBGITANIN RECEPTOR RECEPTOR RELEATIN RECEPTOR RECEP
CLRB_RAT GRFR_MOUSE CLRA_RAT CCRFR_HUMAN CALR_PIG CFRZ_RAT CRFR_MAT DIHR_MANSE PACR_RAT DIHR_MANSE YOWI CABEL CD97_HUMAN MILC_XENLA SCRFR_RAT DIHR_MANSE YOWI CABEL TATINI NCS_BOVIN VG51_HSVII ADT_RICPR YWCF_BACSU AND_ERROCH WC51_RSVII ADT_RICPR YWCF_BACSU GCRC_MOUSE
04400000000000000000000000000000000000
2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
888777884444111 80877884444108 606688888899799797979797979797979797979797
48444444444444444444444444444444444444
22222222222222222222222222222222222222

ALIGNMENTS

	,	3) PRCEPTOR),			TETRAPODA; MAMMALIA;							THE PARATHYBOTH HORMONE THE	G PROTEINS WHICH ACTIVATE)	ABUNDANTLY IN BRAIN AND PANCREAS.	G-PROTEIN COUPLED RECEPTORS.		GLYCOPROTEIN; SIGNAL.		HORMONE RECEPTOR.	(POTENTIAL).		(POTENTIAL).		(POTENTIAL).		(POTENTIAL).		(POTENTIAL).		(POTENTIAL).		(POTENTIAL).		(POTENTIAL).					32;
AA.	ATE)	PDATE (PTH2													ANTLY	3-PRC				HOF		. 7					9 2				2 E			(I)						CRC32;
550	UPD	SOR U			BRAT						_	RECEDENCE	MEDIATED		BUNDA	OF.		MBRAI	IAL.	YROII	ELLUI	ENT 17	ASMIC	ENT 17	ELLUI	ENT 17	ASMIC	ENTI	ELLUI	ENTI	ASMIC	ENTIA	ELLUI	ENTIZ	ASMIC	IAL.	IAL.	IAL.	IAL.	1286
PRT;	ED) SEQUENCE UPDATE)	(REL. 33, LAST ANNOTATION UPDATE) HORMONE RECEPTOR PRECURSOR (PTH2			CHORDATA; VERTEBRATA;					E 6	270-15455-15458/1995)	SPECIFIC RE	2 12	ì	EXPRESSED A	FAMILY 2		TRANSMEMBRANE;	POTENTIAL.	PARATHYROID	EXTRACELLULAR	1 (POTENTIAL)	CYTOPLASMIC	2 (POTENTIAL	×	3 (POTENTIAL)	CYTOPLASMIC	4 (POTENTIAL		5 (POTENTIAL	CYTOPLASMIC	6 (POTENTIAL)	×	7 (POTENTIAL)	CYTOPLASMIC	POTENTIAL.	POTENTIAL.	POTENTIAL.	POTENTIAL	MW; DD481286
STANDARD;	33, CREATED)	RECEPTO			CHORDAT					TATA COL	5455-15.	S A SPE				S	57;	ο.	24	550	145	691	176	961	237	260	275	/ 62	316	337	364	383	394	417	550	51	106	116	121	235
STANI		REL. 33 ORMONE		SAPIENS (HUMAN)	TAZOA;	PKIMATES.		N.A.	(ALN;	1210	270.1		OF THIS	CYCLASE.	TISSUE SPECIFICITY:	Y: BELONGS	G88796	COUPLED RE	7	25	27 1		70			238								395 4					121	¥,
N				ENS	AE AE			FROM	OF 21	ָרְיָּרְיָּרְיִּרְיִּרְיִּרְיִּרְיִּרְיִּרְיִּרְיִ) HEW	TON	TIX	LYL	JE SP	ARIT	128;	4 COU				H	Н	٦	-	7	(4)	7	C)	M	m	m	m	m	4		-	m	-	550
LT 1 PTR2_HUMAN	01-FEB-1996 01-FEB-1996	01-FEB-1996 PARATHYROID		HOMO SAPI	EUKARYOTA; METAZOA;	EUTHERIA;	[7]	SEQUENCE FROM N.A.	VEDITNE: 0531		T RIOI CHEM	١.	ACTIVITY	ADENYLYL	-!- TISSU	-!- SIMILARITY:	EMBL; U25128; G887967;	G-PROTEIN	SIGNAL	CHAIN	DOMAIN	TRANSMEM	DOMAIN	TRANSMEM	DOMAIN	TRANSMEM	DOMAIN	LKANSMEM	DOMAIN	TRANSMEM	DOMAIN	TRANSMEM	DOMAIN	TRANSMEM	DOMAIN	CARBOHYD	CARBOHYD	CARBOHYD	CARBOHYD	SEQUENCE
RESULT ID P	2551	DE DE	S	SO	38	3 ;	Z I	Α. Ε.	۲ ۵ ۲ ۶	4 6	£ 12	, E	ខ	ខ	႘	႘	DR	ΚW	FJ	F	F	FI	FI	FŢ	FT	F	E I	1	E4 I	FI	F	FI	FT	FT	FT	FŢ	FT	FT	FI	OS.

US-08-468-011-2.rsp

Best Loca Matches

셤

61

셤 ö 셤

ð

61 121 121

181

à

셤

181

241

à

301 301 361

셤

361

원 à g

ö

421

```
evgaeikkswsrwtlaldfkrkarsgsstysyg-pmvsh-tsv-tnvgp-rg-glalsls 513
                                                                                                                                                                                                                                                                                                                                                                                       vtvflyflttnyywilveglylhslifmaffsekkylwgftlfgwglpavfvavwvtvra 338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tlantecwdlssgnkkwiiqvpilaaivvnfilfiniirvlatklretnagrcdtrqqyr 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EVQAEVKKMWSRWNLSVDWKRTPPCGSRRCGSVLTTVTHSTSSQSQVAAAHAWCLSLAKL 478
                                                                                                                                                                                                                                                                                                                                                                          hmhlfvsfmlravs1f1kdavlysgvstdeier-iteeelraftepppadkagfvgcrva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (REL. 22, CREATED)
(REL. 23, LAST SEQUENCE UPDATE)
(REL. 1AST ANNOTATION UPDATE)
HORMONE/PARATHYROLD HORMONE-RELATED PEPTIDE RECEPTOR
PIR; A39286; A39286.
GCRDB; GCR, 0204; -.
PROSITE; PSO0669; G_PROTEIN_RECEP_F2_1.
PROSITE; PSO0650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
                                                                                                                                                                                                                                                                                                                          Score 2057; DB 7; Length 585;
Pred. No. 0.00e+00;
105; Mismatches 87; Indels 10;
                                                                                                                2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                           6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                              4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                EXTRACELLULAR (POTENTIAL)
                                                                                                                                        3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                           1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                 CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                  7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                     PTH/PTHR RECEPTOR
                                                                                                                                                                                                                                                                                                      BID03FBF CRC32;
                                                                                                                                                                                       5 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      prlapgagasanghhqlpgyvkhgsisenslps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL
                                                                                                                                                                                                                                                                                            POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                       65963 MW;
                                                                                                                                                                                                                                                                                                                          Match 49.8%;
Local Similarity 55.4%;
les 251; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                            27
186
210
210
217
223
331
331
337
404
404
428
435
435
163
1163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LTR 3
PTRR_RAT
P25961;
01-MAY-1992 (
01-MAY-1992 (
01-FEB-1996 (
PARATHYROID H
PRECURSOR.
                                                       SIGNAL
CHAIN
DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                  TRANSMEM
DOMAIN
CARBOHYD
                                                                                                                                                   DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                 DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                   CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                        DOMAIN
                                                                                                                                                                                                                                                                                                                                                                           102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           479
                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT
ID PT
AC P2
DT 01
DT 01
DE PA
                                                                                                                                                                                                                                                                                                                                          Best
   셤
                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   οχ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                    ä
                                                                                                                                                                                                                                                                                       lakstlvlvlvfgvhyivfvclphsftglgweirmhcelffnsfggffvsiiycycngev 420
                                                                                                                                                                                                                                                                                                                                                                                      qaevkkmwsrwnlsvdwkrtppcgsrrcgsvlttvthstssqsqvaastrmvlisgkaak 480
                                                                                                                                                                                                                                                                                                                                                                                                           QAEVKKMWSRWNLSVDWKRTPPCGSRRCGSVLTTVTHSTSSQSQVAAAHAWCLSLAKLPR 480
                                                                                                                                                                                                                                                                                                                                                                                                                                 481 lasrqpdshitlpgyvwsnseqdclphsfheet-kedsgrqgddilmekpsrpmesnpdt 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                SPA-DSLTATSLYLAMSGVTQSRTASHTLSTRSNKEDSGRQRDDILMEKPSRPMESNPDT 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE; 92054592.

JUEDPRIER H. ABOU'SAMRA A.-B., FREEMAN M., KONG X.-F., SCHIPANI E., SICHARDS J., KOLAKOWSKI L.F. JR., HOCK J., POTTS J.T. JR., KRONENBERG H.M., SEGRE G.V.;
SCIENCE 254,1024-1026(1991).

-I- FUNCTION: THIS IS A RECEPTOR FOR PARATHYROID HORMONE AND FOR PARATHYROID HORMONE-RELATED PEPTIDE. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYIXL CYCLASE AND ALSO A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER
                                                        1 maglgaslhvwgwlmlgscllaraqldsdgtitieeqivlvlkakvqcelnitaqlqege 60
                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; M74445; G164289; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-1992 (REL. 22, CREATED)
01-NOY-1995 (REL. 32, LAST SEQUENCE UPDATE)
01-FEB-1996 (REL. 32, LAST ANNOTATION UPDATE)
PARATHYROID HORMONE/PARATHYROID HORMONE-RELATED PEPTIDE RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DIDELPHIS MARSUPIALIS VIRGINIANA (NORTH AMERICAN OPOSSUM).
EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
MARSUPIALIA.
                                    .;
;
             Length 550;
          Score 3721; DB 7; Length 55
Pred. No. 0.00e+00;
18; Mismatches 26; Indels
                                                                                                                                                                                                                                                                                                                                                                                                  585 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
            90.1%;
91.5%;
                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STANDARD;
                        Similarity
                                 496;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              eg 541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EG 541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PTRR_DIDMA
P25107;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SYSTEM
             Query Match
                         Local
```

540

5

540

셤

481

ò

요

à

Gaps 10;

278

299

m

```
PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                             DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                      SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Loca
Matches
                                                                        479
                  466
                                                      523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             108
                 셤
                                                      g
                                                                        ò
                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                    ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               108 clpewdnivcwplgapgevvavpcpdyiydfnhkghayrrcdrngswevvpghnrtwany 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LADARCWELSAGDIKWIYQAPILAAIGLNFILFLNTVRVLATKIWETNAVGHDTRKQYRK 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        seclkfmtnetr-erevf-drlgm1ytvgysmslas1tvav111ayfrr1hctrny1hmh 225
                                                                     SCHIPANI E., UTENPARE H., FORCE T., FREEMAN M.W., KONG X.-F.,
SCHIPANI E., UTENPA P., RICHARDS J., BONVENTRE J.V., POTTS J.T. JR.,
KRONENBERG H.M., SEGRE G.V.,
FROOT ACT. ACAD. SCI. US.A. 89:2732-2736(1992).
-!-FUNCTION: THIS IS A RECEPTOR FOR PARATHYROID HORMONE AND FOR
PARATHYROID HORMONE-RELATED PEPTINE. THE ACTIVITY OF THIS
RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL
CYCLASE AND ALSO A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                        SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mflsfmlraasifvkdavlysgftldeaerlteeelhiiaqvpppaaaavgyagcrvav
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LFVSFMLRATSIFVKDRVVHAHIGVKELESLIMQD-DPQNSIEATSVDKS-QYIGCKIAV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tfflyflatnyywilveglylhslifmaffsekkylwgftifgwglpavfvavwygvrat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CFPEWDGLICWPRGTVGKISAVPCPPYIXDFNHKGVAFRHCNPNGTWDFMHSLNKTWANY
                                                                                                                                                                                           PROSITE; PS00649; G_PROTEIN_RECEP_F2_1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
      RATTUS NORVEGICUS (RAT).
EUKARYOTA: METAZOA; CHORDAIA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. 0.00e+00;
100; Mismatches 105; Indels 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 591;
                                                                                                                                                                                                                                                                                                                                                 6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                            EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                     EXTRACELLULAR (POTENTIAL) 5 (POTENTIAL).
                                                                                                                                                                                                                                                                                         3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                        CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                     1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                              CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.00e+00;
                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 7;
                                                                                                                                                                                                                                  PTH/PTHR RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                          BD689F77 CRC32;
                                                                                                                                                                                                                                                                        (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                   (POTENTIAL)
                                                                                                                                                                                                                                                                                                             4 (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 1966;
                                                                                                                                                                                                                          POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                        POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                           ₩.;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 47.6%;
Best Local Similarity 53.2%;
Matches 244; Conservative
                                                                                                                                                                  -!- SIMILARITY: BELONGS TC
EMBL; M77184; G206035; -.
GCRDB; GCR_0206; -.
                                                                                                                                                                                                                                                                                                                                                                                                                           66260
                                                                                                                                                                                                                                  591
188
212
                                                                                                                                                                                                                                                                                                                    361
361
361
361
361
361
361
                                                                                                                                                                                                                                                                                                                                                                                                                176
591 AA;
                         EUTHERIA; RODENTIA.
                                           SEQUENCE FROM N.A.
                                                              MEDLINE; 92212903
                                                      TISSUE-BONE
                                                                                                                                                SYSTEM
                                                                                                                                                                                                                                                                                                                                       DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                           DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                 DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                             DOMAIN
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                  TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                          SIGNAL
                                                                                                                                                                                                                                    CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
```

```
361 LAKSTLVLVLVFGVHYIVFVCLPHS-FTGLGWEIRMHCELFFNSFQGFFVSIIYCYCNGE 419
                                                  vqaeirkswsrwtlaldfkrkarsgsssysyg-pmvsh-tsv-tnvgpraglslplsprl 522
|||||::||||||::||||:||||
                                                                                 clpewdnivcwplgapgevvavpcpdylydfnhkghayrrcdrngswevvpghnrtwany 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         seclkfmtnetr-erevf-drlgmiytvgysmslasltvavlilayfrrlhctrnyihmh 225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KARPERIEN M., VAN DIJK T.B., HOEIJMAKERS T., CREMERS F.,
ABOU-SAMRA M.B., BOONSTRA J., DE LAMY S.W., DEFIZE L.H.K.;
SUBMITTED (APR-1994) TO BRAL/CEBBARK/DDBJ DATA BANKS.
-!- FUNCTION: THIS IS A RECEPTOR FOR PARATHYROID HORMONE AND FOR PARATHYROID HORMONE-RELATED REPTILE. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY Q PROTEINS WHICH ACTIVATE ADDIVILY COUNTY OF THIS RECEPTOR IS MEDIATED BY Q PROTEINS WHICH ACTIVATE ADDIVILY.
CYCLASE AND ALSO A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SYSTEM.
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-: SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; X78936; G474829; -.
GCRDB; GCR_1005; -.
                                                                                                                                                                                                                                                                                                                                                     01-NOV-1995 (REL. 32, CREATED)
01-NOV-1995 (REL. 32, LAST SEQUENCE UPDATE)
01-REB-1996 (REL. 33, LAST ANNOTATION UPDATE)
PARATHYROID HORMONE/PARATHYROID HORMONE-RELATED PEPTIDE RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROSITE; PS00649; G_PROTEIN_RECEP_F2_1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       υ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MUS MUSCULUS (MOUSE).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; RODENTIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 591;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 1943; DB 7; Length 59
Pred. No. 0.00e+00;
77; Mismatches 74; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
5 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EXTRACELLULAR (POTENTIAL) 7 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PTH/PTHR RECEPTOR. EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                      ppattnghsqlpgh-akpgapatetetlpvtmavpkddg 560
                                                                                                                                                                                   51A89D1D CRC32:
                                                                                                                                                                                                                                                                                                          591 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CYTOPLASMIC
6 (POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   66313 MW:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     47.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          59.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       230; Conservative
                                                                                                                                                                                                                                                                                                          STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                591 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN-C3H/HEHA
                                                                                                                                                                                                                                                             4
PTRR_MOUSE
P41593;
01-**
```

ŝ

g

ò

ò a ö ò

```
473
593 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRANSMEM
DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DOMAIN
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
CARBOHYD
CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            466
    DORR DORR DO DE LA COLLA DELLA DELLA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ă
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE=KIDNEY;
MEDLINE; 93238641.
MEDLINE; 93238641.
SCHIPANI E., KARGA H., KARAPLIS A.C., POTTS J.T. JR., KRONENBERG H.M.,
ABOU-SAMRA A.B., SEGRE G.V., JUEPPNER H.;
ENDOCRINOLOGY 132:2157-2165(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      465
                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE; 95263723.
SCHIPANI E., WEINSTEIN L.S., BERGWITZ C., IIDA-KLEIN A., KONG X.F., STUHRWANN M., KROSE K., WHYTE M.P., WORRAY T., SCHMIDTKE J., DOP C., BRICKMAN A.S., CRAMFORD J.D., POTTS J.T., KRONENBERG H.M., ABOU-SAMRA A.B., SEGRE G.V., JUEPPNER H.; J. CLIN. ENDOCRINOL. METAB. 80:1611-1621(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUBMITTED (XXX-1995) TO EMBL/GENBANK/DDBJ DATA BANKS.
-i- FUNCTION: THIS IS A RECEPTOR FOR PARATHYROID HORMONE-RELATED PEPTIDE. THE ACTIVITY OF THIS PRACTHYROID HORMONE-RELATED PEPTIDE. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL CYCLASE AND ALSO A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -1- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-1- TISSUE SPECIFICITY: EXPRESSED IN MOST TISSUES. MOST ABUNDANT IN
KIDNEY, BONE AND LIVER.
-1- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; L04308; G190722; -.
EMBL; X68596; G396813; -.
: : : : | ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||:|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||:|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||:|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||::|| ||:|| ||::|| ||::|| ||::|| ||:|| ||::|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||
                                                                                                                                                                                                                                                                                                                 tfflyflatnyywilveglylhslifmaffsekkylwgftifgwglpavfvavwygvrat
                                                                                                                                   mflsfmlraasifvkdavlysgftldeaerlteeelhiiaqvpppaaaavgyagcrvav
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    lantgcwdlssghkkwiiqvpilasvvlnfilfiniirvlatklretnagrcdtrqqyrk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      406 llrstlvlvplfgvhytvfmalpytevsgtlwqiqmhyemlfnsfqgffvaiiycfcnge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q03431;
01-0CT-1993 (REL. 27, CREATED)
01-0CD-1993 (REL. 27, LAST SEQUENCE UPDATE)
01-FED-1996 (REL. 33, LAST ANNOTATION UPDATE)
PARATHYROID HORMONE/PARATHYROID HORMONE-RELATED PEPTIDE RECEPTOR
PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE-KIDNEY;
MEDLINE; 93387403.
SCHHEIDER H., FEYEN J.-H., RAO MOVVA N.;
EUR. J. PHARMACOL. 246:149-155(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vgaeirkswsrwtlaldfkrkarsgs 491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE-KIDNEY;
LEVINE M.A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SYSTEM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 T 5
PTRR_HUMAN
                                               123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT
ACCOUNTS
ACCOU
```

```
240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      108 clpewdhilcwplgapgevvavpcpdyiydfnhkghayrrcdrngswelvpghnrtwany 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       llkstlvlmplfgvhy1vfmatpytevsgtlwqvqmhyemlfnsfggffvai1ycfcnge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lantgcwdlssgnkkwiiqvpilasivlnfilfinivrvlatklretnagrcdtrqqyrk
                                                                                                                                                                                                                                                                                                                                                                          SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
EMBL: U22401; G897595; JOINED.

REMEL: U22401; G897596; JOINED.

REMEL: U22402; G897596; JOINED.

REMEL: U22403; G897596; JOINED.

REMEL: U22404; G897596; JOINED.

REMEL: U22405; G897596; JOINED.

REMEL: U22406; G897596; JOINED.

REMEL: U22407; G897596; JOINED.

REMEL: U22408; GROUPEN RECEP_F2_1.

REMEL: REMER: REMER: U2025; JOINED.

REMEL: PS00649; GROTEIN RECEP_F2_1.

REMEL: PS00650; GROTEIN RECEP_F2_1.

REMEL: PS00650; GROTEIN RECEP_F2_1.

REMEL: U22408; GROTEIN RECEP_F2_1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 593;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 1942; DB 7; Length 59
Pred. No. 0.00e+00;
79; Mismatches 80; Indels
                                                                                                                                                                                                                                                                                                                                                                                                               PTH/PTHE RECEPTOR.

EXTRACELLULAR (POTENTIAL).

(POTENTIAL).

CYTOPLASMIC (POTENTIAL).

EXTRACELLULAR (POTENTIAL).

STRACELLULAR (POTENTIAL).

STRACELLULAR (POTENTIAL).

CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vgaeikkswsrwtlaldfkrkarsgsssysyg-pmvshts 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                POTENTIAL.
POTENTIAL.
POTENTIAL.
POTENTIAL.
K -> N (IN REF. 2).
S -> C (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   66360 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 58.8%;
Matches 235; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     47.08;
```

; 6

```
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL;
EMBL;
EMBL;
PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL;
EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL;
                                180
                                                                                                                                                                                                             419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL;
           179
                                                      220
                                                                                                                                             339
                                                                                                                                                                                       396
           셤
                                 á
                                                    셤
                                                                          ò
                                                                                              셤
                                                                                                                      ö
                                                                                                                                           셤
                                                                                                                                                                 å
                                                                                                                                                                                     8
                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                         30;
                                                             01-APR.1993 (REL. 25, CREATED)
01-APR.1993 (REL. 25, LAST SEQUENCE UPDATE)
01-NOV-1995 (REL. 32, LAST ANNOTATION UPDATE)
01-NOV-1995 (REL. 32, LAST ANNOTATION UPDATE)
(PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE TYPE II RECEPTOR)
(PACAP TYPE II RECEPTOR) (PACAP-R-2).
RATTUS NORVEGICUS (RAI).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       65 kmwdnltcwpttprgqavvldcp-lifqlfaplhgynisrscteeg-ws--q-lepg-py 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -1- TISSUE SPECIFICITY: IN LIVER, LUNG, INTESTINES, THYMUS AND BRAIN (MOSTLY IN THE CEREBRAL CORTEX AND HIPPOCAMPUS).
-1- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 hvr-wlcvlagalacalrpagsqaaspqheceylqlieiqrqqc-le-eaqlenettgcs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PEWDGLICWPRGTVGKISAVPCPPYIYD-FNH-KGVAF-RHCNPNGTWDFMHSLNKTWAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   119 hiacglndrassldegqqtkfyntvktgytigyslslasllvamailslfrklhctrnyi
                                                                                                                                                                                                                                                                                                                                     GCRDB; GCR_0369; -.
PROSITE; PS00649; G_PROTEIN_RECEP_F2_1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
                                                                                                                                                                                                                                FUNCTION: THIS IS A RECEPTOR FOR VIP. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL
                                                                                                                                                                                                                                                                                                                                                                              POTENTIAL.
VASOACTIVE INTESTINAL POLYPEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        44;
                                                                                                                                           EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                           ISHIHARA T., SHIGEMOTO R., MORI K., TAKAHASHI K., NAGATA S.;
NEURON 8:811-819(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 459;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                               2 (POTENTIAL)
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                              EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                          1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CYTOPLASMIC (POTENTIAL). 6 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                   SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
420 VQAEVKKMWSRWNLSVDWKRTPPCGSRRCGSVLTTVTHST 459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 9.02e-188;
94; Mismatches 126;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 1026; DB 9; 1 Pred. No. 9.02e-188;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            F642C98E CRC32;
                                           Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (POTENTIAL)
                                           459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            52057 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                           STANDARD;
                                                                                                                                                                                                                                                                                                            EMBL; M86835; G207641;
PIR; JH0594; JH0594.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          343
343
375
459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            459 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
Matches 177; Conser
                                                                                                                                                      EUTHERIA; RODENTIA
                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                 MEDLINE; 92232309.
                                                                                                                                                                                         TISSUE-LUNG
                                                                                                                                                                                                                                                       CYCLASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                          RANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                              SIGNAL
                                                                                                                                                                                                                                                                                                                                  GCRDB;
                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              65
 õ
                                           CCRARROCOSEDETATO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
```

a å ò d

```
418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-OCT-1993 (REL. 27, LAST SEQUENCE UPDATE)
01-NOV-1995 (REL. 32, LAST ANNOTATION UPDATE)
VASCACTIVE INTESTINAL POLYPEPTIDE RECEPTOR 1 PRECURSOR (VIP-R-1)
(PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE TYPE II RECEPTOR)
(PACAP TYPE II RECEPTOR) (PACAP-R-2).
  ---gckaa 219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           D., MAORET J.J., CARRERO I.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 OF G-PROTEIN COUPLED RECEPTORS.
                       359 RKLAKSTLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSFQGFFVSIIXCYCNG
                                                                              vvffqycvmanffwllveglylytllavsffserkyfwgyiligwgvpsvfitiwtvvri
                                                                                                                                                             280 yfedfgcwdtlinsslwwiikapillsilvnfvlficiirilvgklrppd-igkndsspy
                                                                                                                                                                                    srlakstllliplfgihyvmfaffpdnfka---qvkmvfelvvgsfqgfvvailycflng
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
hmhlfmsfilratavfikdmalf-nsg----e--i---d-hcs-ea-sv--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PATEL D.R., HUANG J.-X., GOETZL E.J.;
RES. COMMUN. 193:546-553(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BIOCHEM. BIOPHYS. RES. COMMUN. 200:769-776(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                     457 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUVINEAU A., ROUYER-FESSARD C., DARMOUL OGIER-DENIS E., LABURTHE M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LIVER AND PLACENTA.
STMILARITY: BELONGS TO FAMILY
                                                                                                                                                                                                                                                                                                                              evgaelrrkwrrwhlggvlgw 416
                                                                                                                                                                                                                                                                                                                                                   01-OCT-1993 (REL. 27, CREATED)
01-OCT-1993 (REL. 27, LAST SEQ
01-NOV-1995 (REL. 32, LAST ANN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOINED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          U11079, G508260, JOINED.
U11080, G508260, JOINED.
U11081, G508260, JOINED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OF 33-457 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LABURTHE M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SREEDHARAN S.P., PATEL BIOCHEM. BIOPHYS. RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         U11087; G508260;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     G508260;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JN0604; JN0604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EUTHERIA; PRIMATES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE-INTESTINE;
MEDLINE; 93290641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94235025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE-INTESTINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE-LIVER;
                                                                                                                                                                                                                                                                                                                                                                                                                                LT 7
VIPR_HUMAN
P32241;
```

```
NAGATA S.;
                                                                                                                                                                                                                                                                                            TRANSMEM
DOMAIN
                                                                                                                                                                                                              DOMAIN
TRANSMEM
                                                                                                                                                                                                                                          DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                 TRANSMEM
DOMAIN
                                                                        MEDLINE;
                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                        PRANSMEM
                                                                                                                                                                                                                                    RANSMEM
                                                                                                                                                                                                                                                                              RANSMEM
                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                         CHAIN
                                                                                                                                                                                                                             DOMAIN
                                                                                                                                                                                                                                                         DOMAIN
                                                                                                                                                                                                                                                                                      DOMAIN
                                                                                                                                                                                                                                                                                                                                                                    Best Loc
Matches
                                                                                             EMBO
                                                                                                                                                                                                                                                                                                                                                                                                                                                175
         셤
                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                      63 cskmwdnltcwpatprgqvvvlacplifklfssiqgrnvs-rsctdeg-wt--h-le-p- 115
                                                                                                                                                                                                                                                                                                           CFPEWDGLICWPRGTVGKISAVPCPP-Y-IYDFNH-KGVAFRHCNPNGTWDFMHSLNKTW 119
                                                                                                                                                                                                                                                                                                                                116 gpyplacglddkaasldeqqtmfygsvktgytigyglslatllvatailslfrklhctrn 175
                                                                                                                                                                                                                                                                                                                                        176 yihmhlfisfilraaavf-----i--kdl-alf--dsge-s-dqcs-egs--vgck 216
                                                                                                                                                                                                                                                                                                                                                                                                                    rihfedygcwdtinsslwwiikgpiltsilvnfilficiirillqklrppdirksdss-p 335
                                                                                                                                                                                                                                                                                                                                                                                                                            ::| : || :|: ||:| : | : :-|: | : ||: |
6 ASLHVWGWL-MLGSCILARAQLDSDGTIT-IEEQIVLVLKAKVQCELNIT-AQLQEGEGN 62
                                                                                                                                                                                                                                                                       splpar-wlcvlag-alawalgpagggaarlgeecdyvgmievghkgcleeaglenetig 62
                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                    GCRDB; GCR_0397; -.
GCRDB; GCR_0052; -.
GCRDB; GCR_0774; -.
MIM; 192321; 11TH EDITION.
PROSITE; PS00649; G_PROTEIN_RECEP_F2_1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEP_F2_2.
SIGNAL.
1 30
                                                                                                                                                                                                                                         Score 1003; DB 9; Length 457;
Pred. No. 9.92e-183;
103; Mismatches 128; Indels 42;
                                                                VASOACTIVE INTESTINAL POLYPEPTIDE
                                                                                                   2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                             EXTRACELLULAR (POTENTIAL)

1 (POTENTIAL).

CYTOPLASMIC (POTENTIAL).
                                                                                                                                        EXTRACELLULAR (POTENTIAL)
                                                                                                                                                             6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                                 CYTOPLASMIC (POTENTIAL).
                                                                                                                                                  CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                          7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                    -> GLLR (IN REF. 2)
D1D30A32 CRC32;
                                                                                                                                              (POTENTIAL)
                                                                                                                                (POTENTIAL)
                                                                                                                                                                                                              POTENTIAL
                                                                                                                                                                                                 POTENTIAL
                                                                                                                                                                                                        POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gevqaelrrkwrrwhlqgvlgwn 415
                                                                                                                                                                                                                             51547 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24.3%;
|larity 38.4%; |
| Conservative 1
                                                                              58
69
100
290
284
457 AA;
                                                                                                                                                                                                                                                 Local Similarity
les 170; Conserv
                                                                                                                                                                          TRANSMEM
DOMAIN
CARBOHYD
                                                                                                                         DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                              DOMAIN
TRANSMEM
                                                                                             DOMAIN
TRANSMEM
                                                                                                           DOMAIN
TRANSMEM
                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                     CONFLICT
                                                                CHAIN
                                                                                                                                                                                                                                                  Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          418
                                                                                                                                                                                                                                                                                                                 63
                                                                                                                                                                                                                                                                                                                                                                                                                    277
                                                                                                                                                                                                                                                                                                                                                                                                                                 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             393
                                                                                                                                                                                                                                                                                                  g
        KKKKKKK TEFFFFFF
                                                                                                                                    555555555555
                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                           용
                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                         ò
```

Ŗ.

449

PRT;

LT 8 STC_RAT STANDARD; P23811; 01-NOV-1991 (REL. 20, CREATED)

RESULT

```
Gaps 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nyihmhlfvsfilralsnfikd---a--v---lfssddvtyc-da---hk---vgc 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           335 nhykrlakstllliplfgihyivfa-fspe-dam--evqlffelalgsfgglvvavlycf 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 etasgceglwdnmscwpssapartvevqcpkfllmlsnkngslfrnctqdg-ws--etfp 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 118 r--pdla-cgvninnsfnerrhayllklkvmytvgyssslamllvalsilcsfrrlhctr 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    trhflentgcwdinanasvwwvirgpvilsilinfiffinilrilmrklrtgetrgset- 334
                                                                                                                                                                                                  THIS
                                                                                                                                                                                                                                           -:- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-:- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; X59132; 657229; -
PIR; S16319; 516319.
                                                                                                                                                                                                                                                                                       EMBO J. 10:1635-1641(1991).
                                              RATTUS NORVEGICUS (RAT).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; RODENTIA.
                                                                                                                                                                                                               RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32;
                                                                                                                                                     ISHIHARA I., NAKAMURA S., KAZIRO Y., TAKAHASHI I., TAKAHASHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 975; DB 8; Length 449;
Pred. No. 1.34e-176;
97; Mismatches 95; Indels
                                                                                                                                                                                                                                                                                                                                                                                                              1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
2 (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
5 (POTENTIAL).
5 (POTENTIAL).
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                   EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                   SECRETIN RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             35394075 CRC32;
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                POTENTIAL
                            PRECURSOR (SCT-R)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 40.7%;
les 154; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               291
449 AA;
            U1-APR-1993 (REL. SECRETIN RECEPTOR
                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                     91266890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
```

```
01-NOV-1995 (REL. 32, CREATED)
01-NOV-1995 (REL. 32, LAST SEQUENCE UPDATE)
01-NOV-1995 (REL. 32, LAST ANNOTATION UDDATE)
VASOACTIVE INTESTINAL POLYPEPTIDE RECEPTOR 2 PRECURSOR (VIP-R-2)
(PITUITARY ADENYLAIE CYCLASE ACTIVATING POLYPEPTIDE TYPE III RECEPTOR)
(PACAP TYPE III RECEPTOR) (PACAP-R-3).
                   246 FLATNYYMILVEGLYLHNLIEVAFFSDTKYLMGFILLIGMGFPAAFVAAWAVARATLADAR 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MINAGAKI J.-I., SEINO S.;
MINAGAKI J.-I., SEINO S.;
PROC. NATL. AGAD. SCI. U.S.A. 91:2679-2683(1994).

-I. FUNCTION: THIS IS. RECEPTOR FOR VIP AS WELL AS PACAP-38 AND -27,
THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH
ACTIVATE ADENYLYL CYCLASE. CAN BE COUPLED TO PHOSPHOLIPASE C.
-I. SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-I. TISSUE SPECIFICITY: EXPRESSED AT HIGH LEVELS IN THE MING CELLS,
AT MODERATE LEVELS IN PANCREATIC ISLETS, INSULIN-SECRETING CELLS,
LUNG, BRAIN, STOMACH, AND COLON, AND AT LOW LEVELS IN THE HEART.
-I. SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                            cimanyswllveglylhtllaisffserkylqgfvafgwgspaifvalwaiarhfledvg
                                                                         cwdinanasiwwiirgpvilsilinfilfinilrilmrklrtgetrgnevs-hykrlars
                                                                                                                                                    344 tllliplfgihyivfa-fspe-dam--eiqlffelalasfqglvvavlycflngevqlev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BROLITE: PESON (PROTEIN RECEP_F2_1.
PROSITE; PSON650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VASOACTIVE INTESTINAL POLYPEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 437;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 907; DB 9; I Pred. No. 9.38e-162;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               68FD8DE4 CRC32;
                                                                                                                                                                                                                                                                                                                                              Æ
                                                                                                                                                                                                                                                                                                                                            437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RECEPTOR 2
                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               49473 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22.0%;
38.5%;
                                                                                                                                                                                                                                                                                                                                            STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MUS MUSCULUS (MOUSE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EUTHERIA; RODENTIA.
                                                                                                                                                                                                                           qkkwqqwhl 408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G-PROTEIN COUPLED SIGNAL 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE; 94195806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               437
                                                                                                                                                                                                                                                                 425 KKMWSRWNL
                                                                                                                                                                                                                                                                                                        10
VIPS_MOUSE
P41588:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EUKARYOTA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHAIN
                                                                           285
                                                                                                                                                                                                                           400
                                                                                                                                                                                                                                                                                                                      AND SOLD THE STATE SOLD THE SO
                                                                         요
                                                                                                                                                g
                                                                                                                                                                                       ò
                                                                                                                                                                                                                           셤
                                   ò
                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16;
356 KQYRKLAKSTLVLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSFQGFFVSIIYCY 415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 124 avnvndssnekrhsyllklkvmytvgyssslvmllvalgilcafrrlhctrnyihmhlfv 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          126 LRFLQPDISIGKQEFCERLYVMYTVGYSISFGSLAVAILLIGYFRRLHCTRNYIHMHLFV 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   70 wdniscwpssvpgrmvevecprflrmltsrngslfrnctqdg-ws--etfpr--pnla-c 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               184 sfilralsnfikd----a---v----lfssddvtyc-da---hra---gcklvmvlfgy 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. 3.40e-174;
87; Mismatches 93; Indels 32; Gaps
                                                                                                                                                                                                                                                                                                                                                                                             TISSUE-PANCREAS;
MEDLINE; 95169147.
JIANG S., ULRICH C.D.;
BIOCHEM. BIOPHYS. RES. COMMUN. 207:883-890(1995).
-I- FUNCTION: THIS IS A RECEPTOR FOR SECRETIN. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; U20178; 6652796; -.
MIM; 182098; 11TH EDITION.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE.
                                                                                                                                                                                                                                                                                                  HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 8; Length 440;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SECRETIN RECEPTOR.
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 (POTENTIAL). CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL.
4C5C432F CRC32;
                                                                                                                                                                                     01-FEB-1996 (REL. 33, CREATED)
01-FEB-1996 (REL. 33, LAST SEQUENCE UPDATE)
01-FEB-1996 (REL. 33, LAST ANNOTATION UPDATE)
SECRETIN RECEPTOR PRECURSOR (SCT-R).
                                                                                                                                                                      Ė
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (POTENTIAL)
                                                                                                                                                                      440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           POTENTIAL. POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 964;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 POTENTIAL
                                                                                                                                                                      PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         72
100
106
128
291
50234 MW;
                                                                         416 CNGEVQAEVKKMWSRWNL 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
23.3%;
Best Local Similarity 42.5%;
Matches 157; Conservative
                                                                                                                                                                      STANDARD;
                                                     391 Ingevglevgkkwrgwhl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100
106
128
291
440 AA;
                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                9
SCRC_HUMAN
P47872;
01--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
                                                                                                                                              7 11 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                   ð
                                                   g
                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

```
49552 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANDARD;
         151
158
178
227
227
240
262
279
330
330
348
360
57
87
91
91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VIPS_HUMAN
P41587;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RECEPTOR).
                                                                    DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                 DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                       DOMAIN
TRANSMEM
         DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                            PRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                FRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local
                                                                                                                                                                                                                                                               DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ID DATE OF THE SERVICE OF THE SERVIC
             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
      22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-FEB-1994 (REL. 28, CREATED)
01-FEB-1994 (REL. 28, LAST SEQUENCE UPDATE)
01-FEB-1996 (REL. 33, LAST ANNOTATION UPDATE)
01-FEB-1996 (REL. 33, LAST ANNOTATION UPDATE)
VASOACTIVE INTESTINAL POLYBETIDE RECEPTOR 2 PRECURSOR (VIP-R-2)
(PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE TYPE III RECEPTOR)
(PACAP TYPE III RECEPTOR) (PACAP-R-3).
RATTUS NORVEGICUS (RAT).
EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                                                                                         | | ||:|||||||||::||:|||||| ||:||| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| ||:|| |
                                                                                                            | || :::| | : | | :| | :| | :| | C-ELNITAQLQEGEGNCFPEWDGLICWPRGTVGKISAVPCPPYIYDFNHK-GVAFRHCNP 105
                                                                                                                                                                                          dg-ws--etfpd-fid-a-c-gyndpe-deskisfyilvkaiytlgysvslms1ttgsii 146
                                                                                                                                                                                                                                                                                                                147 iclfrklhctrnyihlnlflsfmlraisvlvkdsvlysssgl--lrc---hdqp----a 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         250 ipsvcigawtatrlsledtgcwdtndhsipwwvirmpilisivvnfalfisivrillgkl 309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             310 -tspdvggndqsqykrlakstllliplfgvhymvfaafpigiss-tyqi-lf-elcvgsf 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cael-lssq-tengracsgvwdnitcwrpadvgetvtvpcpkvfsnfysrpgniskncts 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -27
148; Conservative 101; Mismatches 101; Indels 34; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE; PS00649; G_PROTEIN_RECEP_F2_1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VASOACTIVE:
VASOACTIVE:
RECEPTOR 2.
EXTRACELLULAR (POTENTIAL).
1 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LUTZ E.-M., SHEWARD W.J., WEST K.M., MORROW J.A., FINK HARMAR A.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN-SPRAGUE-DAWLEY; TISSUE-OLFACTORY BULB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ż
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  qglvvavlycflnsevqcelkrrw 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   405 QGFFVSIIYCYCNGEVQAEVKKWW 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEBS LETT. 334:3-8(1993)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
TISSUE-CEREBRAL CORTEX;
MEDLINE; 95080140.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EUTHERIA; RODENTIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE; 94039806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23
126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         T 11
VIPS_RAT
P35000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SIGNAL
      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CHAIN
                                                                 37
                                                                                                                            48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               366
                                                                                                                                                                                          95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT OF THE PROPERTY OF THE 
                                                                 셤
                                                                                                                            ò
                                                                                                                                                                                    요
                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-NOV-1995 (REL. 32, CREATED)
01-NOV-1995 (REL. 32, LAST SEQUENCE UPDATE)
01-NOV-1995 (REL. 32, LAST ANNOTATION UPDATE)
VASOACTIVE INTSTINAL POLYPEPTIDE RECEPTOR 2 PRECURSOR (VIP-R-2)
PITUTTARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE TYPE III RECEPTOR)
(PACAP TYPE III RECEPTOR) (PACAP-R-3) (HELODERMIN-PREFERRING VIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ipsvcigawiatrlsledtgcwdtndhsipwwvirmpilisivvnfalfisivrillgkl 309
:!: ::|| :| |: ||: ||: || : ||| ||: ||| ||:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        95 dg-ws--etfpd-fid-a-c-gyndpe-deskitfyllvkalytlgysvslmslttgsii 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C-ELNITAQLQEGEGNCFPEWDGLICWPRGTVGKISAVPCPPYIYDFNHK-GVAFRHCNP 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               147 iclfrklhctrny1hlnlflsfmlraisvlvkdsvlysssgt--lrc---hdqp----- 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  345 WETNAVGHDTRKQYRKLAKSTLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSF 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE; 95110300.
SVOBODA M., TASTENOY M., VAN RAMPELBERGH J., GOOSSENS J.F., NEEF P.,
SVOBODA M., ROBBERCHT P.;
BIOCHEM. BIOPHYS. RES. COMMUN. 205:1617-1624(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  37 cael-lssqm-enhracsgvwdnitcwrpadigetvtvpcpkvfsnfysrpgniskncts 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ch 21.8%; Score 900; DB 9; Length 437;
1 Similarity 38.0%; Pred. No. 3.14e-160;
146; Conservative 101; Mismatches 103; Indels 34; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -g---s-wvgcklslvffqycimanfywllveglylhtll-vailppsrcflaylligwg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    226 TSVDKSQYIGCKIAVVMFIYFLATNYYWILVEGLYLHNLIFVAFFSDTKYLMGFILIGWG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -tspdvggndqsqykrlakstllliplfgvhymvfaafpigiss-tyqi-lf-elcvgsf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                      6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                      2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                   CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                              5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                           7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                             -> R (IN REF. 2)
88736A73 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Æ
                                                                             (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              438
                                                                                                                                                                                                                                                                                                                                               POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                        POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                    POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gglvvavlycflnsevqcelkrrw 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ||: |:::||: |:||| |:|: |
QGFFVSIIYCYCNGEVQAEVKKMW 428
```

σ

-OCT-1993 (REL. 27, LAST SEQUENCE UPDATE) -NOV-1995 (REL. 32, LAST ANNOTATION UPDAT

```
276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          62 wrpanvgetvtvpcpkvfsnfyskagnisknctsdg-ws--etfpd-fvd-a-c-gysdp 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      115 e-deskitfyilvkalytlgysvslmslatgsiilclfrklhctrnyihlnlflsfilra 173
: :| | : :|||||||||||
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              174 isvlvkddvlysssgt--lhc----p-d--qp-s---s-wvgcklslvflqycimanf 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        192 TSIFVKDRVVHAHIGVKELESLIMQDDPQNSIEATSVDKSQYIGCKIAVVMFIYFLAINY 251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : | | : | | | : | | | | 312 GDIKW-IYQAPILAAIGLNFILFLNTVRVLATKIWETNAVGHDTRKQYRKLAKSTLVLVL 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         336 lfgvhymvfavfpisiss-kyqi-lf-elclgsfqglvvavlycflnsevqcelkrkwrs 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 llppalltcwllapvnsihpecrfhleigeeetkctel-lrsg-tekhkacsgvwdnitc 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENTLYL CYCLASE. CAN BE COUPLED TO PHOSPHOLIPASE C. -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN. -!- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS. EMBL; L40764; G712837; -. EMBL; L36566; G550478; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               218 fwllveglylhtll-vamlpprrcflaylligwglptvcigawtaarlyledtgcwdtnd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               277 hsvpwwviripilisiivnfvlfisiirillqkl-tspdvggndqsqykrlakstlllip
                                                                       PROSITE; PS00649; G_PROTEIN_RECEP_F2_1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
SIGNAL
                                                                                                                                                VASOACTIVE INTESTINAL POLYPEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 21.2%; Score 877; DB 9; Length 438; Best Local Similarity 36.3%; Pred. No. 3.18e-155; Matches 153; Conservative 111; Mismatches 121; Indels 36;
                                                                                                                                                                                       1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLUIAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                         6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                             EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                    3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                              5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                      7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                              BA72D60D CRC32;
                                                                                                                                                                                                                                                                                  4 (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL. POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                POTENTIAL.
                                                                                                                                                                 RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                               49503 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                              438 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R 430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   393 r 393
                                                                                                                                                                                                       DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                           DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                       DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
CARBOHYD
SEQUENCE
                                                                                                                                                                          DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                 DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                           DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
CARBOHYD
                                                                                                                                                CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                430
   FT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            පු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
```

463 AA

PRT;

LT 13 GLPR_RAT STANDARD; P32301; 01-0CT-1993 (REL. 27, CREATED)

```
Query Match 20.9%; Score 863; DB 4; Length 463;
Best Local Similarity 35.0%; Pred. No. 3.51e-152;
Matches 150; Conservative 103; Mismatches 148; Indels 28; Gaps 22;
           01-NOV-1995 (REL. 32, LAST ANNOTATION UPDATE)
GLUCAGON-LIKE PEPTIDE 1 RECEPTOR PRECURSOR (GLP-1 RECEPTOR) (GLP-1-R).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                lralsvfikd----a--alkwmystaaqqhqwdgllsyq-d-s--lgcrlvfllmqycva 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anyywllvegvylytllafsvfsegrifklylsigwgvpllfvipwgivkylyedegcwt 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             70 acwpdgppgsfvnvscpwylpwassvlqghvyrfctaegiwlhkdnsslpwrdlsecees 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        71 ICWPRGTVGKISAVPCPPYI-YDFNH-KGVAFRHCNPNGTWDFMHSLNKTWANYSDCLRF 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13 lllga--vgragprpggatvslse-tvgkwreyrhqcqrflteapllatglfcnrtfddy 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INSULINOMA CELL LINE.
-!-SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; M97797; G387868; -.
EMBL; S44970; -; NOT_ANNOTATED_CDS.
PIR; A46172; A46172.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          130 kggernspeegl-lslyiiytvgyalsfsalviasailvsfrhlhctrnyihlnlfasfi
                                                                                                                                                                                                                                                                                                                              PROSITE; PS00669; G_PROTEIN_RECEP_F2_1.
PROSITE; PS00650; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
                                                  RATTUS NORVEGICUS (RAT).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; RODENTIA.
                                                                                                                                                              PROC. NATL. ACAD. SCI. U.S.A. 89:8641-8645(1992).
-!- FUNCTION: THIS ISA RECEPTOR FOR GLUCAGON-LIKE PEPTIDE 1.
ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH
ACTIVATE ADENYLYL CYCLASE.
                                                                                                                                                                                                                                                                                                                                                                         POTENTIAL.
GLUCAGON-LIKE PEPTIDE 1 RECEPTOR.
                                                                                                                                                                                                                   -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- TISSUE SPECIFICITY: PANCREATIC ISLETS, STOMACH, LUNG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                  1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                      EXTRACELLULAR (POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL)
                                                                                             [1]
SEQUENCE FROM N.A.
STRAIN-SPRAGUE-DAWLEY; TISSUE-PANCREATIC ISLETS;
MEDLINE; 92409572.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 863; DB 4; I
Pred. No. 3.51e-152;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        D9F3BDA4 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        52876 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     387
408
463
63
82
115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        463 AA;
                                                                                                                                                 THORENS B.;
PROC. NATL.
                                                                                                                                                                                                                                                                                                                  GCRDB; GCR_
                                                                                                                                                                                                                                                                                                                                                                                                   DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                             FRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                         SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       189
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
```

```
223 IEATSVDKSQYIGCKIAVVMFIYFLATNYYMILVEGLYLHNLIFVAFFSDTKYLMGFILI 282
                                                                                                      47 QCELNITAQLQEGEGNCFPEWDGLICWPRGIVGKISAVPCPPYI-YDFN-HKGVAFRHCN 104
                                                                                 102 pdgqw-vrgprgqpwrdasqc-qmdgeeievqkevakmyssfqvmytvgyslslgallla 159
                                                                                                                                                                                                                                                   212 v-stwisdgavagcrvaavfmqygivanycwllveglylhnliglatipersffslylgi 270
                                                                                                                                                                                                                                                                                                                                    271 gwgapmlfvvpwavvkclfenvqcwtsndnmgfwwilrfpvflailinffifvrivgllv 330
                                                                                                                                                                                                                                                                                                                                                                                                                   331 aklr-arqmhhtdyk-fr-lakstltlipllgvhevvfafvtdehaggtlrsaklffdlf 387
qchhnlsllppptelvcnrtfdkyscwpdtpanttaniscpwylpwhhkvqhrfvfkrcg 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MAGET B., TASTENOY M., SVOBODA M.;
FEBS LETT 351:271-275(1994).
--- FUNCTION: THIS IS A RECEPTOR FOR GLUCAGON. THE ACTIVITY OF THIS
RECEPTOR IS MEDIATED BY G PROFILENS WHICH ACTIVATE ADENYLYL
CYCLASE AND ALSO A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -1- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-1- SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; L04796; 6457614; -.
EMBL; X68692; 6463258; -.
EMBL; M96674; G204374; -.
EMBL; M96674; G473766; -.
EMBL; L31574; G473766; -.
PIR; J01957; J01957;
GCRDB; GCR_0539; -.
                                                                                                                                                                  160 lailgglsklhctrnaihanlfasfvlkassvlvidgllrtrysgk----1-gdd-l-s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SYOBODA M., CICCARELLI E., TASTENOY M., CAUVIN A., STIEVENART M., CHRISTOPHE J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
MEDLINE; 93206096.
JELINEK L.J., LOK S., GRANT F.J., ROSENBERG G.B., SMITH R.A.,
JELNEK L.J., LOK S., GRANT F.J., ROSENBERG G.B., SMITH R.A.,
KULDPER J.L., SHEPPPARD P.O., O'HARA P.J., FOSTER D.C.,
KINDSVOGEL W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RATTUS NORVEGICUS (RAT).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BIOCHEM. BIOPHYS. RES. COMMUN. 191:479-486(1993)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  388 lssfqgllvavlycflnkevqselrrrwhrwrlgkvlw 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ā
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-APR-1993 (REL. 25, CREATED)
01-FEB-1996 (REL. 33, LAST SEQUENCE UPDATE)
01-FEB-1996 (REL. 33, LAST ANNOTATION UPDAT)
GLUCAGON RECEPTOR PRECURSOR (GL-R).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
STRAIN-WISTAR; TISSUE-LIVER;
MEDLINE; 94364484.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SCIENCE 259:1614-1616(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EUKARYOTA; METAZOA;
EUTHERIA; RODENTIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KINDSVOGEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SYSTEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GLR_RAT
P30082;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE;
                                                                                                                                                                                                                                                 윱
                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                            ద
                                                                                                                       ŏ
                                                                                                                                                            음
                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17;
                       309 LSAGDIK-W-IYQAPILAAIGLNFIIFLNTVRVLATKIWETNAVGHDTRKQYRKLAKSTL 366
                                                                                                      1: ::| | ::| | :| | 367 VLVLVFGVHYIVFV-CLP-HSFTGLGWEIRMHCELFFNSFQGFFVSIIYCYCNGEVQAEV 424
-rnsnmnywliirlpilfaigvnflvfirviciviakl-kanlmcktdik-cr-lakstl 354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE; 94192999.
LOK S., KUILDER J.L., JELINEK L.J., KRAMER J.M., WHITMORE T.E.,
LOK S., KUILDER J.L., JELINEK L.J., BIGGS S.H., ROSENBERG G.B.;
GENE 140:203-209(1994).
-!- FUNCTION: THIS IS A RECEPTOR FOR GLUCAGON. THE ACTIVITY OF THIS
RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL
CYCLASE AND ALSO A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER
SYSTEM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             355 tlipllgthevifafvmdehargtlrf-vklftelsftsfqqfmvavlycfvnnevqmef
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE-LIVER;
MEDLINE; 94121651.
MACNEIL D.J., OCCI J.L., HEY P.J., STRADER C.D., GRAZIANO M.P.;
BIOCHEM. BIOPHYS. RES. COMMUN. 198:328-334(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                  HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 845; DB 4; Length 477;
Pred. No. 2.84e-148;
102; Mismatches 138; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EXTRACELLULAR (POTENTIAL). 5 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CYTOPLASMIC (POTENTIAL).
6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GLUCAGON RECEPTOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        POTENTIAL.
DB3FF092 CRC32;
                                                                                                                                                                                                                                                                                                                                                 01-FEB-1996 (REL. 33, LAST SEQUENCE UPDATE)
01-FEB-1996 (REL. 33, LAST ANNOTATION UPDATE)
GLUCAGON RECEPTOR PRECURSOR (GL-R).
                                                                                                                                                                                                                                                                                          477 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  POTENTIAL
                                                                                                                                                                                                                                                                                            PRT;
                                                                                                                                                                                                                                                                                     GLR_HUMAN STANDARD; 1
P47871;
01-FEB-1996 (REL. 33, CREATED)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ¥
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20.5%; ilarity 34.4%; Conservative 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1173
1225
2225
2249
2249
2285
3303
3350
3350
3350
3404
404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 137; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              59
74
78
477 AA;
                                                                                                                                                                414 rkswerwrl 422
                                                                                                                                                                                                        425 KKMWSRWNL 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CHAIN
                                                                               셤
                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                              PRESENTATION OF THE PROCESS OF THE P
                                      ò
                                                                                                                       ð
                                                                                                                                                                                                      ö
```

```
Gaps 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 163 ILIIGYFRRHCTRNYIHMHLFVSFMLRATSIFVKDRVVHAHIGVKELESLIMQDDDQNS 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43 gchhnlsllppptelvcnrtfdkyscwpdtppnttaniscpwylpwyhkvghrlv-fkrc 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           161 lvillg1rk1hctrnyihgn1fasfv1kagsv1vidw11ktrysgk----i-gdd-1-s 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   213 v-svwlsdgavagcrvatvimqygiianycwllvegvylysllsittfseksffslylci 271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                223 IEATSVDKSQYIGCKIAVVMFIYFLATNYYMILVEGLYLHNLIFVAFFSDTKYLMGFILI 282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               272 gwgspllfvipwvvvkclfenvqcwtsndnmgfwwilripvllailinffifvriihllv 331
GCRDB; GCR_0540; -.
GCRDB; GCR_0657; -.
PROSITE; PSO0649; G_PROTEIN_RECEP_F2_1.
PROSITE; PS00660; G_PROTEIN_RECEP_F2_2.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; SIGNAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20.5%; Score 845; DB 4; Length 485;
larity 34.0%; Pred. No. 2.84e-148;
Conservative 101; Mismatches 137; Indels 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
POTENTIAL.
POTEN
                                                                                                                                                                                                                                                                                                          1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                     GLUCAGON RECEPTOR,
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -> C (IN REF. 2).
-> A (IN REF. 2).
05D9BFDC CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 389 fssfggllvavlycflnkevgaellrrwrrw 419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  55038 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                             2226
2226
2250
2264
44053
327
4405
321
475
475
475
475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 133; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   85 AA;
                                                                                                                                                                                                                                                                         DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                             DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                    PRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                    SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 t E E S
        NAME OF THE PART O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
```

Search completed: Thu Feb 6 12:25:48 1997 Job time: 27 secs.

. . .

1 GTTIGCTCTGGGCAGCCAAG.......ATTIGCTCTGTGATTGTTCA 2003 CAAACGAGACCGGTGGGTTC......TAAACGAGACACTAACAAGT ********************************** Fri Feb 7 09:05:06 1997; MasPar time 1411.58 Seconds 1168.691 Million cell updates/sec (FE) 0.00e+00 0.00e+00 0.00e+00 Pred. No. 16:8CT 17:BCT2 18:BCT3 19:BCT4 20:BCT5 21:BCT6 22:BCT7 23:BCT8 24:BCT9 25:INV1 26:INV2 27:INV3 28:INV4 29:INV5 30:INV6 31:INV7 32:MAN1 33:MAN2 34:MAN3 35:VRT1 36:PVRT2 37:VRT3 38:BCT1 39:PAT2 40:PAT3 41:PHG 42:PLN1 49:PLN2 44:PLN3 45:PLN4 46:PLN5 47:PLN6 48:PLN7 49:PLN8 50:PRI 51:PRI 52:PRI3 53:PRI4 54:PRI5 55:PRI6 56:PRI7 57:PRI8 58:PRI9 59:PRI10 60:PRII1 61:PRI12 55:PRI3 63:ROD1 66:PRII1 61:PRI12 55:PRI3 63:ROD1 61:PRI12 57:PRI3 63:ROD3 66:ROD3 66:ROD5 68:ROD5 69:ROD7 70:ROD8 71:STR 72:SYN 73:UNA 74:VRL1 75:VRL3 77:VRL4 78:VRL5 79:VRL6 80:VRL7 81:VRL8 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. embl-new5
1:BCT 2:FUN 3:INV1 4:INV2 5:ORG 6:MAM 7:VRT 8:PLN 9:PRI
10:PRO1 11:PRO2 12:ROD 13:SYN 14:UNC 15:VIR
genbank94 n.a. - n.a. database search, using Smith-Waterman algorithm Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by IntelliGenetics, Inc. 82:BCT 83:INV1 84:INV2 85:MAM 86:VRT 87:PAT 88:PHG 99:PLN 90:PRI 91:ROD 92:STR 93:SYN 94:UNA 95:VRL u-emb146_94 96:partl Human PTH2 parathyroi Human PTH2 parathyroi Human parathyroid hor Variance 4.178; scale 2.851 Description >US-08-468-011-1 (1-2003) from US08468011.seq (1 of 2) 2003 279077 segs, 411808665 bases x 2 Minimum Match 0% Listing first 45 summaries SUMMARIES HS251281 HSU25128 HSPTHR05 Dbase 0; Query 0 H 2641 9 2641 56 1980 90 Query Match Length DB TABLE default Mean 11.914; Tabular output not generated. genbank-new5 Gap 6 Post-processing: ription: fect Score: •• Scoring table: Score Sequence: 1950 1950 626 STD Statistics: MPsrch_nn Searched: Database: Database: Database: Database: Νo. Run on: Nmatch Result N.A.

0.00e+00 1.57e-270 1.38e-251 1.31e-242 6.53e-251 1.44e-235 1.44e-235 1.94e-119 1.94e-119 1.94e-119 1.94e-119 1.94e-135 1.94e-119 1.94e-119 1.94e-119 1.94e-119 1.96e-33 1.12e-43 1.12e-43 1.12e-43 1.12e-43 1.12e-43 1.12e-33 1.86e-30 1.86e-30 1.86e-30 1.86e-30 1.86e-30 1.86e-30 1.86e-30	29e-22 17e-22 29e-22 17e-22 17e-22 17e-22
um parathyroid ho um parathyroid de crofa parathyroid horm arathyroid horm arathyroid horm parathyroid ho parathyroid horm arathyroid horm	Rattus norvegicus gas Human vasoactive inte H.sapiens intestinal Human glucagon-like p Human glucagon-like p Human corticotropin-r Human glucagon-like p Rat mRNA for rat PACA
a on an a	RAIGIPPR R HUWIPR H HSVIPRP H HSVIPRP H HSVIPRP H HSVIPPR H HSVIPP
11199488 9 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
######################################	ទ. _ឲ . គ. ស. ស. ស. ស. ស. ፊ.
0020 0020 0020 0020 0020 0020 0020 002	00000000000000000000000000000000000000
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000000000000000000000000000000000000

ALIGNMENTS

MEDLINE; 95318121.
Usdin T.B., Gruber C., Bonner T.I.;
"Identification and functional expression of a receptor
selectively recognizing parathyroid hormone, the PTHZ receptor";
J. Biol. Chem. 270:15455-15458(1995). Submitted (17-APR-1995) to the EMBL/GenBank/DDBJ databases.
Tom I. Bonner, Lab of Cell Biology, NIMH, Bldg. 36, Room 3A-17,
Bethesda, MD 20892-4090, USA
SWISS-PROT; P49190; PTR2_HUMAN. Homo sapiens (human) Eukaryota; Animalia; Metazoa; Chordata; Vertebrata; Mammalia; Theria; Eutheria; Primates; Haplorhini; Catarrhini; Hominidae. U25128; 08-JUL-1995 (Rel. 44, Created) 09-APR-1996 (Rel. 47, Last updated, Version 3) Human PTH2 parathyroid hormone receptor mRNA, complete cds. standard; RNA; PRI; 2641 BP Bonner T.I.; HS251281 -2641 1-2641 RESULT

Location/Qualifiers

~

US-08-468-011-1-01.rge

```
1492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1612
                                                                                                                                                                                                                                                                                                                                                                                                                                                          gigotcaccaccatgacgcacagcaccagccagicacaggggcaggcagcacacgc 1552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATGGTGCTTATCTCTGGCAAAGCTGCCAAGATCGCCAGCAGACAGCCTGACAGCCACATC 1558
                                                                                                                                                                                                                                                                                       teggacaccaaatacetgtggggettcatettgataggetggggggtttecagcagttt 1012
                                                                                                                                                          719
                                                                                                                                                                                                   attetgtttetgaataeggttagagttetagetaceaaaatetgggagaeeaatgeagtt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tggaatctctccgtggactggaaaaggacaccgccatgtggcagccgcagatgcggctca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            atggtgettatetetggcaaagetgecaagategecageagacageetgacagecacate
                                                                       gctacaagcatctttgtcaaagacagagtagtccatgctcacataggagtaaaggagctg
                                                                                                                                      GCTACAAGCATCTTTGTCAAAGACAGAGTAGTCCATGCTCACATAGGAGTAAAGGAGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tgggagatccgcatgcactgtgagctcttcttcaactcctttcagggtttctttgtgtct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        atcatctactgctactgcaatggagggttcaggcagaggtgaagaagatgtggagtcgg
ggctactccatctcttttggttcctttggctgtggctattctcatcattggttacttcaga
                                         1080 ATTCTGTTTCTGAATACGGTTAGAGTTCTAGCTACCAAAATCTGGGAGACCAATGCAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1373
                                                                                                                                                                                                                                                                                                                                1013
                                                                                                                                                                                                                                                                                                                                                     096
                                                                                                                                                                                                                                                                                                                                                                                              1020
                                                                                                                                                                                                                                                                                                                                                                                                                  1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1499
         88
                                                                                                                                      99
                                                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                            006
                                                                                                                                                                                                                                                                                                                                                                          1073
                                                                                                                                                                                                                                                                                                                                                                                                                                                           1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1313
                              593
                                                                                                                 713
                                                                                                                                                                                                                                             893
                                                                                                                                                                                                                                                                                       953
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1613
                                                                                                                                                                                                                                      9
9
                                                                                                                                                                                                                                                                                 9 % 9
                                                                                                                                                                                                                                                                                                                                             6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                  6 6 6
6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                        셤
                                                 Q Q
                                                                                       δ
                                                                                                           g &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           å
                                                                                                                                                                                                                                                                   ATKIWETNAVGHDTRKOYRKLAKSTLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCE
                                                                                                                                                                                                                                                                                       FFNSFQGFFVSIIYCYCNGEVQAEVKKMWSRWNLSVDWKRTPPCGSRRCGSVLTTVTH
                                                                                                                                      /translation="MAGLGASLHVWGWLMLGSCLLARAQLDSDGTITIEEQIVLVLKA
                                                                                                                                                                               PNGTWDFMHSLNKTWANYSDCLRFLQPDISIGKQEFFERLYVMYTVGYSISFGSLAVA
                                                                                                                                                                                                    LIIGYFRLHCTRNYIHMHLFVSFMLRATSIFVKDRVVHAHIGVKELESLIMQDDPQN
                                                                                                                                                                                                                        IEATSVDKSQYIGCKIAVVMFIYFLATNYYWILVEGLYLHNLIFVAFFSDTKYLWGFI
                                                                                                                                                                                                                                             IGWGFPAAFVAAWAVARATLADARCWELSAGDIKWIYQAPILAAIGLNFILFLNTVRV
                                                                                                                                                                                                                                                                                                            TSSQSQVAASTRMVLISGKAAKIASRQPDSHITLPGYVWSNSEQDCLPHSFHEETKED
                                                                                                                                                           /QCELNITAQLQEGEGNCFPEWDGLICWPRGTVGKISAVPCPPYIYDFNHKGVAFRHC
                                                                                                                                                                                                                                                                                                                                                                                                         ä
                                                                      /function="stimulates cAMP production in response to parathyroid hormone but not parathyroid hormone-related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              accattactatagaggagcagattgtccttgtgctgaaagcgaaagtacaatgtgaactc 292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          atttgttggcccagaggaacagtggggaaatatcggctgttccatgcctccttatatt 412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ccagatatcagcataggaaagcaagaattctttgaacgcctctatgtaatgtataccgtt 592
                                                                                                                                                                                                                                                                                                                                                                                                                                           GTTTGCTCTGGGC-AGCCAAGTTGGCATATTGGAAGCTTTTTCCGGGCTCTGGAGGG 59
                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                   protein-coupled receptor; NCBI gi: 887967
                                                                                                                                                                                                                                                                                                                                                                                                                            gtttgctctgggccagccaagttggcaacttggaagcttctcccgggctctggaggaggg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTIGITGGCCCAGAGGAACAGTGGGGAAAATATCGGCTGTTCCATGCCCTCCTTATATT
                              hippocampus"
                                                                                                                                                                                                                                                                                                                                                                                                         ë
                                                                                                                                                                                                                                                                                                                                                                                    Length 2641;
                                                                                                     /product="PTH2 parathyrold hormone receptor"
/db_xref="PID:9887967"
/db_xref="SWISS-PROT:P49190"
                                                                                                                                                                                                                                                                                                                                                                                  Score 1950; DB 9; Length 26
Pred. No. 0.00e+00;
0; Mismatches 17; Indels
                                                                                                                                                                                                                                                                                                                                                              BP; 670 A; 564 C; 623 G; 784 T; 0 other;
                            issue_type="cerebral cortex and 3..1795
                                                                                                                                                                                                                                                                                                                                GROGDDILMEKPSRPMESNPDTEGCOGETEDVL"
                   'organism="Homo sapiens"
                                                              /codon_start=1
                                                                                                                                                                                                                                                                                                                                         2619..2625
2641
                                                                                                                                                                                                                                                                                                                                                                                 Ouery Match 97.4%;
Best Local Similarity 99.0%;
Matches 1985; Conservative
                                                   /note="G
                                                                                            peptide
                                                                                                                                                                                                                                                                                                                                          polyA_signal
polyA_site
Sequence 2641 B
                                                                                                                                                                                                                                                                                                                                                                                  Query Match
           source
                                                                                                                                                                                                                                                                                                                                                                                                                                                Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     533
                                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    413
                                        CDS
                                                                                                                                                                                                                                                                        I.F.
                                                                                                                                                                                                                                                                                                FT S
```

1019 1132

1072

959

899

892 839 952

ഗ

F

F.

닲

SHIF

g ð ò 셤 g

à

g

ò

g ö a õ 쉽 ŏ 셤

ò

772

652 599 712 629

539

1192

1139

1312 1259 1372

1079

1439

1379

m

3,

Gaps

112

59

172

179 292 239 352 299 412 359 472 419 532 479 592 539 652 599 712 629 772 719 832

g

à

ద

å

g

ò

셤

ö

셤

ò

ö

셤

셤 ò

```
NTVRVLATKIWETNAVGHDTRKQYRKLAKSTLVLVLVFGVHYIVFVCLPHSFTGLGWE
IRMHCELFFNSFQGFFVSIIYCYCNGEVQAEVKKMWSRWNLSVDWKRTPPCGSRRCGS
VLTTVTHSTSSQSQYAASTRWLISGRAAKIASRQPDSHITLPGYVWSNSEQDCLPHS
THETKEDSGRQGDDILMEKPSRPMESNPDTEGCQGETEDVL"
2619...2625
                                                                                                                                                                                                                                                                                                                                                                                                                                                             gtttgctctgggccagccaagttggcaacttggaagcttctcccgggctctggaggaggg
                                                                                                                                                                           tocotgottettectacagocgttccgggcatggccgggctgggggcgtcgctccacgtc
                                                                                                                                                                                                                                                                                                                                                                           ccagatatcagcataggaaagcaagaattctttgaacgcctctatgtaatgtataccgtt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cgattgcattgcactaggaactatatccacatgcacttatttgttgtctttcatgctgaga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAGTCCCTAATAATGCAGGATGACCCACAAATTCCATTGAGGCAACTTCTGTGGACAAA
                                                                                                                                                                                                                                     TCCCTGCTTCTTCCTACAGCCGTTCCGGGCATGGCCTGGGCGGGGGGGCGTCCACGTC
                                                                                                                                                                                                                                                                                                                                                                aacatcacagctcaactccaggaggagaaggtaattgtttccctgaatgggatggactc
                                                                                                                                                                                                                                                                                                                                                                                                               atttgttggcccagaggaacagtggggaaaatatcggctgttccatgccctccttatatt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGATTGCATTGCACTAGGAACTATATCCACATGCACTTATTTGTGTCTTTCATGCTGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gagtccctaataatgcaggatgacccacaaaattccattgaggcaacttctgtggacaaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCAGATATCAGCATAGGAAAGCAAGAATTCTGTGAACGCCTCTATGTAATGTATACCGTT
                                                                                                                                     3,
                                                                                                                2641;
                                                                                                                                       Indels
                                                                                                                Length
                                                                                                             Score 1950; DB 56;
Pred. No. 0.00e+00;
0; Mismatches 17;
                                                                          784
                                                                          ρ
                                                                          623
                                                                                                             97.4%;
larity 99.0%;
Conservative
                                                                          U
                                                                         564
                                                                                                                          Similarity
                                                                          ळ
                                                                         670
                                                   polyA_signal
                                                                                                                                     1985;
                                                             polyA_site
                                                                                                             Query Match
Best Local &
                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         720 (
                                                                                                                                                                                    -1
                                                                                                                                                                                                                                     9
                                                                                                                                                              23
                                                                                                                                                                                                            113
                                                                                                                                                                                                                                                             173
                                                                                                                                                                                                                                                                                                              233
                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                              293
                                                                                                                                                                                                                                                                                                                                                                                                               353
                                                                                                                                                                                                                                                                                                                                                                                                                                     300
                                                                                                                                                                                                                                                                                                                                                                                                                                                             413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 833
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          840
                                                                        BASE CO
ORIGIN
                                                                                                                                                              움
                                                                                                                                                                                  à
                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /product="PTH2 parathyroid hormone receptor"
/db_xref="PID:g887967"
/tanslation="MAGLEAFHVGWLMLGSCLLARAQLDSDGTITIEEQIVUVLKA
/translation="MAGLEAFHVGWLMLGSCLLARAQLDSDGTITIEEQIVLVLKA
KVQCELNITAQLQGEGONCFPEMDGLICWPRGTVGKISAVPCPPYIYDFNHKGVAFRH
CNPNGTWDFHISLNKTWANYSDCLRFLQPDISIGKOBFFERLYVMYTVGYSISFGSLA
VALLIIGFYRRLHCTRNY HIMHLEVSPRANATHIGWGFEBSLIMODD
PQNSIEATSVUDKSQTIGCKIAVVWFIYFLATNYYWILVEGIVLHNIFVARFSDTKVL
WGFILIGWGFPAAFVAAWAVARATLADARCWELSAGDIKWIYQAPILAAIGINFIFL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa/Eumycota group;
Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata;
Vertebrata; Gnathostumata; Osteichthyes; Sarcopterygii; Choanata;
Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Archonta; Primates;
Catarrhin; Hominidae; Homo.

1 (Abarrhin; Hominidae; Homo.

1 (Saln,T.B., Gruber,C. and Bonner,T.I.
Identification and functional expression of a receptor selectively
Georgizing parathyroid hormone, the PTH2 receptor
J. Blol. Chem. 270 (26), 15455-15458 (1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Direct Submission
Submitted (17-APR-1995) Tom I. Bonner, Lab of Cell Biology, NIMH,
Bldg. 36, Room 3A-17, Bethesda, MD 20892-4090, USA
Location/Qualifiers
1.2641
/organism-"Homo Sapiens"
/tissue_type-"cerebral cortex and hippocampus"
143..1795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /function="stimulates cAMP production in response to parathyroid hormone but not parathyroid hormone-related peptide"
                                                                                               1738
                                                                                                                                                                                               1858
                                                                                                                                                                        1911
                                                                                                                                                                                                                     1971
                                                                                                                                                                                                                                                1918
                                                                        1791
                                                                                                                         1851
                                                                                                                                                                                                                                                                         2031
                                                                                                                                                                                                                                                                                                                                                                                                 07-JUL-1995
                                                                                                                                                                                                                     gettggetgatactectatgettgagtteaaaggetgaaaatteagttaaggtgttaett
                                                                                                                                                                                     2641 bp mRNA PRI 07-JUL-19 parathyroid hormone receptor mRNA, complete cds.
                                                                      caggoctatggaatctaacccagacactgaaggatgccaaggagaactgaggatgttct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein-coupled receptor
                                                                                                                                                                                                                                                                                                                       atggtatttgctctgtgattgttca 2056
                                                                                                                                                                                                                                                                                                                                                ATGGTATTTGCTCTGTGATTGTTCA 2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (bases 1 to 2641)
                                                                                                                                                                                                                                                                                                                                                                                             HSU25128
Human PTH2 p
U25128
9887966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bonner, T. I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             human.
                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
ACCESSION
NID
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
1559
                                                                                                                                                                                                                                                                                               1919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
TITLE
                        1673
                                              1619
                                                                      1732
                                                                                               1679
                                                                                                                                             1739
                                                                                                                                                                      1852
                                                                                                                                                                                              1799
                                                                                                                                                                                                                       1912
                                                                                                                                                                                                                                              1859
                                                                                                                                                                                                                                                                      1972
                                                                                                                                                                                                                                                                                                                       2032
                                                                                                                                                                                                                                                                                                                                             1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    THORS
                                                                                                                       1792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                     RESULT
```

ò 요 ò ద à g

ò g a

ò g ò

ò

```
/product-"parathyroid hormone receptor"
/db_xref-"PID: 91256373"
//tanslation-"cWELSAGDIKWIYQAPILAAIGLNFILFLNTVRVLATKIWETNA
VGHDTRKQTRKLASTLVILVLFVGHYIVFVCLPHSFTGLGWEIRMHCELFFNSFQGF
FYSIIYCYCNGEVQAEVKKMWSRWNLSVDWKRPPPCGSRRCGSVLTTVTHSTSSQSQV
AASTRNVLISGKAAKIASRQPDSHITILPGYVWSNSEQDCLPHSFHEETKEDSGRQGDD
                                                                                                                                                                                                     Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrateis Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1980)
Usdin,T.B., Gruber,C. and Bonner,T.I.
Identification and functional expression of a receptor selectively recognizing parathyroid hormone, the PTR2 receptor
J. Biol. Chem. 270 (26), 15455-15458 (1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                  Submitted (25-JAN-1996) Tom I. Bonner, Lab of Cell Biology, NIMH, Bldg. 36, Rm 3A17, MSC 4090, Bethesda, MD 20892-4090, USA NCBI gi: 1256371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI
                                                                                                                                                                                                                                                                                                                                                   chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1345 AGGTTCAGGCAGAGGAGGAGAAGATGTGGAGTCGGTGGAATCTCTCCGTGGACTGGAAAA 1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      725 aggttcaggcagaggtgaagaagtgtggagtcggtggaacttctcgtggactggaaa 784
                                                                        08-APR-1996
exon 13 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /map="2q33"
101n(u47125:<363..429, u47126:1..95, u47127:365..503
147128:7.48,727..1968)
/gene="PTHR2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note="PTH2 receptor; G protein-coupled receptor; 11: 1256373"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   join(U47125:<363..429,U47126:1..95,U47127:365.
U47128:7..48,727..1122)
/gene="PTHR2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;;
                                                                                                                                                                                                                                                                                                                                                     ដ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 1980;
                                                                                                                                                                                                                                                                                                                                   Usdin,T.B., Modi,W. and Bonner,T.I.
Assignment of the human PTH2 receptor gene (PTHR2)
2933 by fluorescence in situ hybridization
Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                        bp DNA PRI
hormone receptor (PTHR2) gene,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="Homo sapiens"
/clone_lib="Stratagene library 951202'
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 626; DB 90; L. Pred. No. 0.00e+00; 0; Mismatches 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2.4 kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ILMEKPSRPMESNPDTEGCOGETEDVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /gene="PTHR2"
/note="total approx. 2
/number=12
727..1968
                2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ۵
                                                                                                                                                                                                                                                                                                                                                                                            3 (bases I to 1980)
Bonner, T.I. and Usdin, T.B.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       437
 /codon_start=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            727..1968
/gene="PTHR2"
/number=13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31.3%;
ilarity 98.2%;
Conservative
                                                                                                                                                                                                                                                                                                                       (bases 1 to 1980)
                                                                   Human parathyrold ho
partial cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       394 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1..1980
                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 648; Conser
                                                                                                                   U47129
91256371
                                                                                                                                                                                                                                                                                                         95318121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       526
                                                                                                                                                            5 of 5
                                                                                                                                                                           human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polyA_site
BASE COUNT
ORIGIN
                                                                      LOCUS
                                                                                                                                          SEGMENT
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Intron
                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                AUTHORS
TITLE
                                                                                                                                                                                                                                                                                       JOURNAL
MEDLINE
REFERENCE
                                                                                                                                                                                                                                                                                                                                    AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mRNA
                1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  exon
                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                                                          RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         윰
                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                  1132
                                                                                                                                                                                                                                                              1199
                                                                                                                                                                                                                                                                                          1312
                                                                                                                                                                                                                                                                                                                                                                                                           1432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1133 attetgtttetgaataeggttagagttetagetaceaaaatetgggagaecaatgeagtt 1192
                                                                                                                                                                                          1193 gggcatgacacaaggaagcaatacaggaaactggccaaatcgacactggtcctggtccta 1252
                                                                                                                                                                                                                                                                                                                       1259
                                                                                                                                                                                                                                                                                                                                                  tgggagatccgcatgcactgtgagctcttctcaactccttcagggtttctttgtgtgtct 1372
                                                                                                                                                                                                                                                                                                                                                                                                                          gcttggctgatactcctatgcttgagttcaaaggctgaaaattcagttaaggtgttactt 1911
                                                                                                                                                                                                                                                                                          atggtgcttatctctggcaaagctgccaagatcgccagcagacagcctgacagccacatc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTTGGCTGATACTCCTATGCTTGAGCACAAAGGCTGAAAATTCAGTTAAGGTGTTACTT
                                                                                                                                                                                                                                                  1140 GGGCATGACACAAGGAAGCAATACAGGAAACTGGCCAAATCGACACTGGTCCTGGTCCTA
                                                                                                                                                                                                                                                                                                                                                                                                             atcatctactgctactgcaatggagggttcaggcagaggtgaagaagatgtggagtcgg
                                                                                                                   gctggagacatcaagtggatttatcaagcaccgatcttagcagctattgggctgaatttt
                                                                                                                                                                                                                                                                                                                                                                              1260 TGGGAGATCCGCATGCACTGTGAGCTCTTCTACACTCCTTTCAGGGTTTCTTTGTGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2032 atggtatttgctctgtgattgttca 2056
                                                         1013
                                                                                                                  1073
                                                                                                                                                                                                                                                                                                                                                   1313
                                                                                                                                                                                                                                                                                                                                                                                                           1373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1852
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1912
```

용

ð 용 à 8 à 원 ŏ

名 å 윤 ò ä

ద

ò

셤

g ö

ö

S

```
NCBI 91: 1256371
                       source
                                                                                                                                                                                                                                intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1704
                                                                                                                                                                                                                                                                                                                  Best_Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                    845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1084
                                                           mRNA
                                                                                                                                                                                                                                                              exon
        Key
                                                                                         CDS
                                                                                                                                                                                                      E H
FT C
                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                 용
                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                  1383
                                                                                                1023
                                                                                                               1643
                                                                                                                              1083
                                                                                                                                                           1143
                                                                                                                                                                          1763
                                                                                                                                                                                         1203
                                                                                                                                                                                                                       1263
                                                                                                                                                                                                                                      1883
                                                                                                                                                                                                                                                      1323
                                                                                                                                                                                                                                                                    1943
                     1464
                                                   1523
                                                                                                                                     904
      ttctattggcatcaagttttcctctaaattaatgtatggtatttgctctgtgattgttca
                                                                  ccaagatcgccagcagacagcctgacagccacatcactttacctggctatgtctggagta
                                                                               CCAAGATCGCCAGCAGACAGCCTGACAGCCACATTACCTGGCTATGTCTGGAGTA
                                                                                                                                                           actgaaggatgccaaggagaaactgaggatgttctctgaatggacatttgtggctgactt
                                                                                                                                                                                         tcatgggctggtccaatggctggttgtgtgagagggcttggctgatactcctatgcttga
                                                                                                actcagagcaggactgcctgccacactcttccacgaggag-accaaggaagatagtggg
                                                                                                                              aggoaggagatgatattotaatggagaagcottocaggootatggaatotaacocagac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                               Usdin T.B., Gruber C., Bonner T.I.; "Identification and functional expression of a receptor selectively recognizing parathyroid hormone, the PTH2 receptor"; J. BLO1. Chem. 270:15455-15458(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (25-JAN-1996) to the EMBL/GenBank/DDBJ databases.
Tom I. Bonner, Lab of Cell Biology, NIMH, Bldg. 36, Rm 3A17, MSC
4090, Bethesda, MD 20892-4090, USA
                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Animalia; Metazoa; Chordata; Vertebrata; Mammalia;
Theria; Eutheria; Primates; Haplorhini; Catarrhini; Hominidae
                                                                                                                                                                                                                                                                                                                                                               and
                                                                                                                                                                                                                                                                                                                                             09-APR-1996 (Rel. 47, Created)
09-APR-1996 (Rel. 47, Last updated, Version 1)
Human parathyroid hormone receptor (PTHR2) gene, exon 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (PTHR2) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Usdin T.B., Modi W., Bonner T.I.; "Assignment of the human PTH2 receptor gene 2933 by fluorescence in situ hybridization"; Unpublished.
                                                                                                                                                                                                                                                                                                                                standard; DNA; PRI; 1980 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bonner T.I., Usdin T.B.;
                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                         95318121
                                                                                                                                                                                                                                                                                                                                                                     partial cds.
                                                                                                                                                                                                                                                                                                                         T 4
HSTHR05
                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE:
                                                                                                                                                                                                                                                                                                                                       047129;
                                                                                                                                                                                                                                                                                                                                                                                                                 1-1980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -1980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -1980
                                                 1465
                                                                                1524
                                                                                                              1584
                                                                                                                             1024
                                                                                                                                                                          1704
                                                                                                                                                                                         1144
                                                                                                                                                                                                                                                                                  1324
                                                                                                                                                                                                                                                                                                  1944
                                   845
                                                                 905
                                                                                               965
                                                                                                                                                          1084
                                                                                                                                                                                                        1764
                                                                                                                                                                                                                                                                                                                       RESULT
ID HS
AC U4
DT 05
DT 05
DE H;
CW ·
                                                                                                                           g
                                                                                                                                           ò
                                                                                                                                                         윱
                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                 8
                                            à
                                                             셤
                                                                               ò
                                                                                           g
                                                                                                         ò
                                                                                                                                                                                                        à
                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                               쉽
                                                                                                                                                                                                                                                                                                 ò
```

```
/product-"parathyroid hormone receptor"
/db_xref-"PID:g1256373"
/translation-"CWELSAGDIKWIYQAPILAAIGLNFILFLNIVRVLATKIWETNA
                                                                                                                                                                                                                                                                                        91:
                                                                                                                                                                                                                                                                                                                                                                                                                       GHDTRKQYRKLAKSTLVLVLVFGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSFQGFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIIYCYCNGEVQAEVKKMWSRWNLSVDWKRTPPCGSRRCGSVLTTVTHSTSSQSQVAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRMVLISGKAAKIASRQPDSHITLPGYVWSNSEQDCLPHSFHEETKEDSGRQGDDILM
                                                                                                                                 oin(U47125:<363..429,U47126:1..95,U47127:365..503,U47128;
                                                                                                                                                                                                          oin(U47125:<363..429,U47126:1..95,U47127:365..503,U47128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1345 AGGITCAGGCAGAGGTGAAGAAGAIGTGGGGGGGGGGGGAATCICCCGTGGACTGGAAAA 1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1465 ccascasccastcacastscscsc-ascacscarssrstrarcressaascrs 1523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1144 tcatgggctggtccaatggctggttgtgtgagagggcttggctgatactcctatgcttga 1203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                  /note="PTH2 receptor; G protein-coupled receptor; 1256373"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             725 aggitcaggcagaggigaagaagatgtggagicggiggaacciciccgiggaciggaaaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ccagcagccagtcacagtggcggccagcacacgcatggtgcttatctctggcaaagctg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               actgaaggatgccaaggagaaactgaggatgttctctgaatggacatttgtggctgactt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 1980;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                     /organism="Homo sapiens"
/clone_lib="Stratagene library 951202"
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              G; 620 T; 3 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 626; DB 9; Le
Pred. No. 0.00e+00;
0; Mismatches 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note="total approx. 2.4 ki
/number=12
/27..1968
/gene="PTHR2"
/number=13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KPSRPMESNPDTEGCOGETEDVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 526 A; 394 C; 437
Location/Oualifiers
                                                                                                                                                                   ..1968)
                                                                                                                                                                                                                                              48,727..1122)
                                                                                                                                                                                                                                                                                                                            /codon_start=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <1..726
/gene="PTHR2"
                                                                                                                                                                                                                                                                /gene="PTHR2
                                                                                                                                                                                       'gene-"PTHR2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7 Match 138;
Local Similarity 98.28;
Nes 648; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polyA_site
Sequence 1980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
```

```
ggcagcagtacctacagct 1581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1062
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1359
                                                                                             612
                                                                                                                                                                                                                                                       984
                                                                                                                                                                                                                                                                                                                                  702
                                                                                                                                                                                                                                                                                                                                                            903
                                                                                                                                                                                                                                                                                                                                                                                                               963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                942
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1563
                                                                                                                                                                                                  726
                                     g
                                                                                                                                            g
                                                                                                                                                                        ò
                                                                                                                                                                                            ద
                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                å
                                                                 à
                                                                                         셤
                                                                                                             δ
                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /COCOLT—"Parathyroid hormone receptor"

// Lanslation-"WAAPRISHEALLLCCSVLSSVALVDADDVITKEEQIILLRNA

// Lanslation-"WAAPRISHEALLLCCSVLSSVALVDADDVITKEEQIILLRNA

// CEQERLKEVLRYPELASAKDWMSRSAKTKKERPEKLYSQAEESREVSDRSKLOD

GFCLPEWDNIVCWPAGVPEVVAVPCPDYIYDFNHKGRAYRRCDSNGSWELVPGNNRT

WANYSECVKFLIMETREREVPDRLGMYTYOFSISLSGETIVAVLIGYFRKHGTRNY

IHMHLEVSFWLRAVSIFIKDAVLYSGVSTDEIERITEEELRAFTEPPPADRAGFVGCR

VATVTCAFLYTTYY WILVEGLYLHSLIFMAAFSEKKYLMGFTLGFWGLAPAVFVAWV

TROOTRILGSTLTANTYWILVEGLYLHSLIFMAAFSEKKYLMGFTLGFWGLAPAVFVAWV

TROOTRILGSTLYNTYWILVEGLYLHSLIFWAAFSEKKYLMGFTLGFWGLAPAVFVAWV

TROOTRILGSTLYLMPLECHYITVFWALTYTEVGILMQVOMHTSMLFNEFRARGRCD

TROOTRILGSTLYLMPLECHYITVFWALTYTEVGILMQVOMHTSMLFNEFRARGRCG

ALSLSPRLAPGAGSANGHHOLPGYVKHGSISENSLPSSGFPEPGTKDDGYLNGSGLYE
                                                                                                                                                                                                                                                                    Grotein; parathyroid hormone receptor.
Didelphis virginiana kidney cDNA to mRNA.
Didelphis virginiana
Eukaryota; Animalia; Chordata; Vertebrata; Mammalia; Theria;
Eukaryota; Animalia; Chordata; Vertebrata; Mammalia; Theria;
Metatheria; Marsupialia; Marsupicarnivora; Didelphidae.
1 (bases 1 to 1878)
Juppner, H., Abou-Samra, A.-B.B., Freeman, M.W., Kong, X.F.,
Kronenberg, H.M. and Segre, G.
AG-protein linked receptor for parathyroid hormone related peptide
Science 254, 1024-1026 (1991)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note="also binds parathyroid hormone related peptides"
/codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note="also binds parathyroid hormone related peptides"
                                                                 1883
                                                                                           1323
                                                                                                                                             341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            492 ccctgccccgactacatctacgacttcaaccacaaaggccgagcctatcggcgctgtgac 551
                                                                                                                                                                                                                           p mRNA 27-MAY-1992 hormone receptor mRNA, complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                       cctgagtgggacaacattgtgtgctggctgctggagtgcccggcaaggtggtggccgtg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   282 CCTGAATGGGATGGACTCATTTGTTGGCCCAGAGGAACAGTGGGGAAAATATCGGCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 269; DB 33; Length 1878;
Pred. No. 7.57e-270;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hormone receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches 403;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Didelphis virginiana"
/cell_line="OK cells"
/sequenced_mol="CDNA to mRNA"
/iissue_type="kidney"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /product-"parathyroid
502 c 527 q
                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PMVGEQPPPLLEEERETVM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /codon_start=1
114..1871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /codon_start=1
                                                                                                                                                                                                                          OPOPTHR 1878 bp
Opossum parathyroid M74445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 13.4%;
Best Local Similarity 64.2%;
Matches 744; Conservative
                                                                                                                                                                                                                                                            g164288
G prote
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mat_peptide
                                                                                                                                                                                                             Ŋ
                                                                                                                                                                                                                          LA S
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                1824
                                                                                                                                                                                                                                                    ACCESSION
NID
KEYWORDS
                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
             1764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          432
                                      1204
                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                     셤
                                                                                       g
             ö
                                                                ð
                                                                                                                    à
```

```
tacttectgaceaceaetactactggatectggtggaaggeetetacetteaeageete 1022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     atcttcatggcttttttctctgagaaaagtatctctggggtttcacattatttggctgg 1082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1083 ggcctccctgccgtgttgtcgctgtgtgggtgaccgtgagggctacactggccaacact 1142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gctattgtggtgaactttattctttttatcaatataatcagagtcctggctactaaactc 1262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1323 acgctagtgctcatgccgctatttggggtgcactacatcgtcttcatggccacgccgtac 1382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   acagaagtatcagggattctttggcaagtccaaatgcactatgaaatgctcttcaattca 1442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1240 ACTCCTTCA-CTGGGCTCGGGTGGGAGATCCGCATGCACTGTGAGCTCTTCTTCAACTCC 1298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1299 TITCAGGGTITCTITGIGICTAICATCTACTGCTACTGCAATGGAGGGGTICAGGCAGAG 1358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cgggagaccaatgcagggagatgtgacacgaggcaacagtatagaaagctgctgaagtcc 1322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1122 TGGGAGACCAATGCAGTTGGGCATGACAAGGAAGCAATACAGGAAACTGGCCAAATCG 1181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTTTCCAGCAGCATTTGTTGCAGCATGGGCTGTGGCACGAGCAACTCTGGCTGATGCG 1001
                                                                                                                                                                                  665
                                                                                                                                                                                                                                                                                                      666 ggaatgatctacactgtgggctactccatctctgggctccctcactgtggctgtgctg 725
522 TAIGTAATGTATACCGTTGGTACTCCTTTTGGTTCCTTGGCTGGGCTATTCT 51
                                                                                                                                                                                                                                                                                                                                                                                                                           785
                                                                                                                                                                                                                                                                                                                                                                                                                                                          845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   846 gitticcacagaigaaaicgagcgcaicaccgaggagga-g-cigagggccitc-acagag 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          octococotgotgacaaggogggttttgtggggctgcagagtggcggtaaccgtcttcctt 962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          822 TACTICCTGGCTACAAATTATTATTGGATCCTGGTGGAAGGTCTCTACCTGCATAATCTC 881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        401
                                                                                                                       461
                                                                                                                                                                                                                                           521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          701
                                                                                                                                                                                                                                                                                                                                                                                                                           attotgggttactttaggaggttacattgcacccgaaactacattcacatgcatcttc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          642 GIGTCTTTCATGCTGAGAGCTACAAGCATCTTTGTCAAAGACAGAGTAGTCCATGCTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gagtgctgggacctgagttcggggaataagaaatggatcatacaggtgcccatcctggca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ttccagggatttttcgttgccattatatactgtttctgcaatggagaggtacaagcagag
                                                              agcaatggcagctgggagctggtgcctgggaacaaccggacatgggcgaattacagcgaa
                                                                                                                       402 CCCAATGGAACATGGGATTTTATGCACAGCTTAAATAAAACATGGGCCAATTATTCAGAC
                                                                                                                                                                                  tgtgtcaagtttctg-a-ccaacgag-acccg-ggaacgg--gaagtctttgatcgcctc
                                                                                                                                                                                                                                        462 IGCCTICGCTITCIGCAGCCAGAIAICAGCAIAGGAAAGCAAGAAITCIGIGAACGCCIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gtgtcctttatgctccgggctgtaagcatcttcatcaaggatgctgtgctctactcggggg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATAGGAGTAAAGGAGCTGGAGTCCCTAATAATGCAGGATGACCCACAAAATTCCATTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                762 GCAACTICIGIGGACAAAICACAATATATGGGGTGCAAGAITGCTGTGTGATGTIATT
```

US-08-468-011-1-01.rge

ò

1062

701

1122

1182

1242

1362

1422

1237

```
1059 GCAGCTATTGGGCTGAATTTTATTCTGTTTTGGATACGGTTAGAGTTCTGAAA 1118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ccyctyccactytcgccgccaccagctacgtgggctgccgggttgctgtgaccttcttc 1002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tacactgaggtctcagggacgctctggcaagtccagatgcactacgagatgctcttcaac 1482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gaaatcaagaaatcctggagccgctggacattggcactggactttaagcgcaaggcacgt 1602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rattus norvegicus cDNA to mRNA.
Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa/Eumycota group;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                           1003 ctttacttcctggccaccaactactactggattctggtggaggggctgtacctgcacagc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          related-peptide
                               642 GIGTCTITCAIGCIGAGAGCIACAAGCATCTITGICAAAGACAGAGIAGICCAIGCICAC
                                                                                                                                                                                                                                                                                                                                                                                                                                        819 ATTIACTICCTGGCTACAAATTATIATITGGATCCTGGTGGAAGGTCTTACCTGCATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ctcatcttcatggccttcttctccgagaagaagtactgtggggctttacagtcttcggc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tggggtctgcctgccatcttcgtggctgtgtgggtcagtgtgagagccactctggcaaac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      999 GCGAGGTGCTGGGAACTTAGTGCTGGAGACATCAAGTGGATTTATCAAGCACCGATCTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gectecattgtgeteaactteatectetteateaacattgteegggteettgeeaceaag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    attetggcctacttcaggaggctgcactgcacgcaactacatccacatgcacttgttc
                                                                                                                                                                                                        883 gccacgctcgatgaggctgagcgcctcactgaggaagagctgcgcgccattgcccaggca
                                                                                                                                                                                                                                          702 ATAGGAGTAAAGGAGCTGGAGTCCCTAA-TAATGCAGGATGACCCACAAAATTCCATTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      accgggtgctgggacttgagctctgggaacaagaagtggatcatccaggtgcccatcctg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tecacactggtgeteatgeegetetttggegteeattacategtetteatggetaegeea
                                                                                                    823 ctgtccttcatgctgcgcgctgtgagcatcttcgtcaaggacgcggtgctctactcgggc
                                                                                                                                                                                                                                                                                                                                                         761 G-GCAACTIC-IGIGGACAAAICACAATAIATCGGGIGCAAGAIIGCIGIIGIGAIGIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  939 TGGGGGTTTCCAGCAGCATTTGTTGCAGCATGGGCTGTGGCACGAGCAACTCTGGCTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ctgcgggagaccaacgccggccggtgtgacacgcggcagcagtaccggaagctgctcaaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            T-CACTCCT-TCACTGGGCTCGGGTGGGAGATCCGCATGCACTGTGAGCTCTTCTTCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      parathyroid hormone; parathyroid hormone receptor;
parathyroid hormone-related protein;
parathyroid hormone-related receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1603 agtgggagcagcagctacagct 1624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1416 rereccaececagarececr 1437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9467316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ^
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                         943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOURCE
                                          à
                                                                                              g
                                                                                                                                                      ö
                                                                                                                                                                                             g
                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                          å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /product="parathyroid receptor"
/broduct="parathyroid receptor"
/db_xref="polige03240"
/translation="MgARRAPEGALLCCCVLSSAYALVDADDVMTKEEQIFLLHRA
QAQCEKRLKEVLQRPADIMESDKGWASAPTSGKPRKEKASGKLIPESGEDTGSHQGR
QAQCEKRLKEVLQRPADIMESDKGWASAPTSGKPRKEKASGKLIPESGEDTGSHQGR
PCLPEWDHLLCWPLGAPGEVVAMPCPDYIDDFHKGRAYRRCDRNGSNELVPGHNRTW
ANYSECVKFLTNETREREVPDRLGMIYTVGYSVSLASLTVAVULLAFFRILHCTRNY
HMHLFLSFWILANSTYWILVDGLIZHSLIPEMFFSERKYLMGFTVFGGGLPATEVAW
VSVRATLANTGCWDLSSGNKKWHILJQVPILASIVLNFILFINIVYRVLATKLRETHAGGC
DTRQQYRKLLKSTLVLMAPLECVHYIVPWATPYTSGGFFV
DTRCQYRKLLKSTLVLMAPLECVHYIVPWATPYTSGYGVMSHTSGTGFFV
ALIYCFCNGEVQABIKKSWSRWTLALDFKRKARSGSSSYSYGPMVSHTSVTNVGPRTG
LGLPLESRRLIPAATNGGPRETVW
ASAPERPSVLLQEBKETVW
ASAPERPSVLLGEBKETVW
ASAPERPSVLLGEBKETV
ASAPERPSVLLGEBK
                                                                                                                                                                                                                                                                       Eukaryotae; mitochondrial eukaryotes; eukaryote crown group; Metazoa, Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Wetazoa, Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Vertebrata; Gnathostomata; Ostelchthyes; Sarcopterygii; Choanata; Tetrapoda; Anniota; Mammalia; Theria; Eutheria; Artiodactyla; Sulformes; Sulna; Suidae; Sus; (hose); Mainug, H.M. and Zhang, X. Smith, D.P., Hsiung, H.M. and Zhang, X. Structure and functional expression of a complementary DNA for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Direct Submission
Submitted (09-DEC-1994) Dennis P. Smith, Endocrine, Eli Lilly
Company, Lilly Corporate Center, Indianapolis, IN 46285, USA
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  402 CCCAATGGAACATGGGATTITATGCACAGCTTAAATAAAACATGGGCCAATTATTCAGAC 461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SSU18315 2067 bp mRNA MAM 21-DEC-1994 Sus scrofa parathyroid receptor (PTH) mRNA, complete cds. 9603239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ccagagtgggaccacatcctgtgctggccgctgggggcaccaggtgaggtggtggccatg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cgcaatggcagctgggagctggttcccgggcacaaccggacatgggccaactacagcgag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tgtgtcaagttcctg-a-cca---atgagactcgtgaa-cgggaggtgtttgaccgcctg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGCCTTCGCTTTCTGCAGCCAGATATCAGCATAGGAAAGCAAGAATTCTGTGAACGCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches 411; Indels 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 256; DB 34; Length 2067; Pred. No. 1.86e-254;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1..2067
/organism="Sus scrofa"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  porcine parathyroid receptor
Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /sex="female"
1419 GGCAGCCGCAGATGCGGCT 1437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 (bases 1 to 2067)
Smith, D.P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /gene-"PTH"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     739; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    154..1911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
                                                                                                                                                                                                                                                       scrofa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               435
                                                                                                                                                                                                                               pig.
Sus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           703
                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              URNAL
                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDS
                                                                                                                                                                                                KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGIN
```

g

ð

g

ö

g

ò 셤

ò

```
Expression cloning of a common receptor for parathyroid hormone and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          parathyroid hormone receptor;

Barathyroid hormone-related receptor; transmembrane glycoprotein.

Rattus norvegicus CDNA to mRNA.

Rattus norvegicus

Rattus norvegicus

Rattus norvegicus

Bukaryotes, Animalia; Chordata; Vertebrata; Mammalia; Theria;

Eutheria; Rodentia; Myomorpha; Muridae; Murinae.

1 (bases 1 to 2065)

Bu, Jueppner, H., Force, T., Freeman, M.W.,

Kong, X.-F., Schipan, E., Urena, P., Richards, J., Bonventre, J.V.,

Potts, J.T., Kronenberg, H.M. and Segre, G.V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1229 GIGCCTGCCTCACTCCT---TCACTGGGCTCGGGTGGGAGATCCGCATGCACTGTGAGCT 1285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1380 gctcttcaactccttccagggatttttgttgccatcatatactgtttctgcaatggtga 1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1440 ggtgcaggcagagattaggaagtcatggagccgctggacactggcgttggacttcaagcg 1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                         960 cttgcacagcctcatcttcatggcctttttctcagagaagaagtacctgtggggcttcac 1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          catetttggetggggtetaccggetgtettcgtggetgtggggtcggtgtcagagcaac 1079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1080 cttggccaacactgggtgctgggatctgagctccgggcacaagaagtggatcatccaggt 1139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    989 ICTGGCTGATGCGAGGTGCTGGGAACTTAGTGCTGGAGACATCAAGTGGATTTATCAAGC 1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1140 geceatectggeatetgttgtgetcaaetteateetttttateaaeateateeggtget 1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1109 AGCTACCAAAATCTGGGAGACCAATGCAGTTGGGCATGACAAGGAAGCAATACAGGAA 1168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ggccttgccgtacaccgaggtctcagggacattgtggcagatccagatgcattatgagat 1379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-APR-1992
900 gaccttcttcctctacttcctggctaccaactactactggattctggtggagggctgta
                                                                                                                                                                   696 GCTCACATAGGAGTAAAGGAGCTGGAGTCCCTAATAATGCAGGATGACCCACAAAATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1200 tgccactaagcttcgggagaccaatgcgggccggtgtgacaccaggcagcagtaccggaa
                                                                                                           781 tctggcttcacgctggatgaggccgagcgcctcacagaggaaga-gttgcacatcatcgc
                                                                                                                                                                                                                                                                                     756 ATTGAGGCAACTICTGTGGACAAAT -- CACAATATA-T-CG--GG-TGCAAGATTGCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  929 CITGATAGGCTGGGGGTTTCCAGCAGCATTTGTTGCAGCATGGGCTGTGGCACGAGCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1260 gctgctcaggtccacgttggtgctcgtgccgctctttggtgtccactacacgtcttcat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1286 CTTCTTCAACTCCTTTCAGGGTTTCTTTGTGTCTATCATCATCACTGCTACTGCAATGGAGA
                                                                                                                                                                                                                               complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RATPATHYR 2065 bp mRNA
Rat parathyroid hormone receptor mRNA,
M77184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1500 caaagcacgaagtgggagtagcagctacagct 1531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1406 GACACCGCCATGTGGCAGCCGCAGATGCGGCT 1437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g206034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ۵
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOURCE
                                                  ò
                                                                                                        g
                                                                                                                                                                   õ
                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDATES OF THE TOTAL OF THE TOT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QGFFVAIIYCFCNGEVQAEIRKSWSRWTLALDFKRKARSGSSSYSYGPMVSHTSVTNV
GPRAGLSLPLSPRLPPATTNGHSQLPGHAKPGAPATETETLPVTWAVPKDDGFLNGSC
                                                                                                                                                                                                                                                             cell
                 Vertebrata; Gnathostomata; Osteichthyes; Sarcopterygil; Choanata; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Glires; Rodentia; Sclurognath; Myomorpha; Muridae; Murinae; Rattus.

1 (bases 1 to 1836)
Pausova, Z., Bourdon, J., Clayton, D., Mattel, M.G., Seldin, M.F., Janicic, N., Riviere, M., Szpirer, J., Levan, G., Szpirer, C., Goltzman, D. and Hendy, G.N.

Colling of a parathyroid hormone/parathyroid hormone-related peptide receptor (PTHR) cDNA from a rat osteosarcoma (UMR 106) celline: chromosomal assignment of the gene in the human, mouse, and
Chordata
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tgtctgcccgagtgggacaacatcgtttgctggccattaggggcaccaggtgaagtggtg 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gigotoatociggoctattitaggoggotgoactgoacgogaactacatcoacatgoac 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    276 TGTTTCCCTGAATGGATGGACTCATTTGTTGGCCCAGAGGAACAGTGGGGAAATATCG 335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels 17; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       547 agcgagtgcctcaagttcatg-a-cca---atgagacgcgggaa-cgggaggtatttgac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCAGACTGCCTTTCTGCAGCCAGATATCAGCATAGGAAAGCAAGAATTCTGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /codon_start=1
/product="parathyroid hormone/parathyroid hormone
related-peptide receptor"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tgtgaccgcaatggcagctgggaggtggttccagggcacaaccggacgtgggccaactac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /codon_start=1
/product="parathyroid hormone/parathyroid hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1836;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 253; DB 69; L
Pred. No. 6.53e-251;
0; Mismatches 400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /cell_line="UMR 106"
/cell_type="osteosarcoma"
/sequenced_mol="cDNA to mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SGLDEEASGSARPPPLLQEEWETVM"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  related-peptide receptor"
539 c 538 q 392
Eumetazoa; Bilateria;
                                                                                                                                                                                                                                                                                                            rat genomes
Genomics 20 (1), 20-26 (1994)
94292182
                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          538 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 46..117
/codon_start=1
46..1821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12.6%;
Local Similarity 64.4%;
Les 755; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                        1..1836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ery Match
                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SASE COUNT
                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                              REFERENCE
                                                                                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
```

გ ò

쉱 ò ద 셤 ö 셤 à

ò

σ

```
σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                       929
                                                                                                                                                                   809
                                                                                                                                                                                                   987
                                                                                                                                                                                                                                    869
                                                                                                                                                                                                                                                                     1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1346
 808
                                                                  867
                                                                                                                                   927
                                                                                                                                                                                                                                                                                                                                      1107
                                                                                                                                                                                                                                                                                                                                                                                                         1167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT
                               ò
                                                                 셤
                                                                                                                              g
                                                                                                                                                                 δ
                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                  쉱
                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                  ò
                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                        /product="parathyroid hormone receptor"
/db_xxef="pid:g206035"
/db_xxef="pid:g206035"
/translation="mGAARIAPSIALLICCPVLSSAYALVDADDVFTKEEQIFLLHRA
QAQCRKLEKELHAANIMESDKGWTPASTSGKFRKEKASGKFPEPESKENKDVPFGSR
RAGRCLDFEWDIJVCWPLGAPGEVAVPCPDIIVDFHNKGHAYRCDRNGSWEVVPGH
NRTWANYSECLKFMINETEREVFDRIGMIYTVGYSWGLASLTVAVLILAYFRRHGT
RNYIHHMFLSFMLRAASIFVKDAVLYSGFTLDEAERLFEEELHIIAQVPPPPAAAAV
GYAGCRVAVTPFLYFLATNYYWILVEGLYLHSLIFMAFPSEKKYLMGFTIFGMGLPAV
FVAVWVGVRATLANTGCWDLSSGHKWIIQVPILASVVLNFILFINIIRVLATKLET
NAGRCDTRQQYRKLLRSTLVLVPLFGVHYTVFWALPYTEVSGTLWQIQMHYEMLFNSF
QGFFYAIIYGFCNGEVQAEIRKSWSRATLALDFKRKRRSGSSSYSYGFWVSHTNSF
GGFRAGLSLPLSPRLPPATTNGHSQLPGHAKPGAPATETTLPVTWAVPKDDGFLNGSC
SGLDEBASGSARPPPLLQEEWETVW"
                                                                                                    hormone and
 cells:
                                                                                              Expression cloning of a common receptor for parathyroid hormone and parathyroid hormone-related peptide from rat osteoblast-like cells: A single receptor stimulates intracellular accumulation of both CAMP and inositol trisphosphates and increases intracelular free
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tgtctgcccgagtggacaacatcgtttgctggccattaggggcaccaggtgaagtggtg 453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  276 TGTTTCCCTGAATGGGATGGACTCATTTGTTGGCCCAGAGGAACAGTGGGGAAAATATCG 335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     396 IGTAACCCCAAIGGAACAIGGGAIITITAIGCACAGCIITAAAIAAAACAIGGGCCAAIIAI 455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      574 agcgagtgcctcaagttcatg-a-cca---atgagacgcgggaa-cgggaggtatttgac 627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            688 gigcicatcciggcciatititaggcggcigcactgcacgcgcaactacatccacaigcac 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                748 atgitccigicgittaigcigcgcgcgcgagcatcitcgigaaggacgcigigciciac 807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 253; DB 69; Length 2065;
Pred. No. 6.53e-251;
0; Mismatches 400; Indels 17; Gaps
parathyroid hormone related peptide from rat osteoblast-like
              A single receptor stimulates intracellular accumulation of
camp and inositol trisphosphates and increases
Proc. Natl. Acad. Sci. U.S.A. 89, 2732-2736 (1992)
92212903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   514 tgtgaccgcaatggcagctgggaggtggttccagggcacaaccggacgtgggccaactac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        456 TCAGACTGCCTTCGCTTTCTGCAGCCAGATATCAGCATAGGAAAGCAAGAATTCTGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gcagtaccttgtcccgattacatttatgacttcaatcacaaaggccatgcctacagacgc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            576 AITCTCAICAITGGITACTICAGACGATIGCATIGCACIAGGAACIAIAICCACAIGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /product="parathyroid hormone receptor"
73..1848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /codon_start=1
/product="parathyroid hormone receptor"
578 c 617 g 435 t
                                                                                                                                                                                                                                         /ceil_line="osteosarcoma"
/sequenced_mol="cDNA to mRNA"
73..135
                                                                                                                                                                                                                                  /organism="Rattus norvegicus"
                                                                                                                                                                                               Location/Qualifiers
1..2065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             617 9
                                                                                                                                                                                                                                                                                                                                                      /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 12.6%;
Best Local Similarity 64.4%;
Matches 755; Conservative
                                                                                Complete title:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ಥ
                                                                                                                                                                                    calcium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 435
                                                                                                                                                                                                                                                                                     sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mat_peptide
                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
DRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                989
                                               JOURNAL
                                                                                                                                                                                                                                                                                                                                     CDS
                                                                                                                                                                                                   FEATURES
                                                                                COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

```
RNA ROD 04-MAY-1994 parathyroid hormone/parathyroid hormone related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata Vertebrata; Gnathostomata; Osteichthyes; Sarcopterygii; Choanata; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Glires; Rodentia; Sciurognathi; Myomorpha; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cttgcacagcctcatcttcatggcctttttctcagagaagaagtacctgtggggcttcac 1046
                                                                                                                                                                                                                                                                                                                                                                                                                                                        catctttggctggggtctaccggctgtcttcgtggctgtggggtcggtgtcagagcaac 1106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1169 ACTGGCCAAATCGACACTGGTCCTGGTCCTTTGGAGTGCATTACATCGTGTTCGT 1228
                                                                                                                                                                                                                          986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryotae; mitochondrial eukaryotes; Metazoa/Eumycota group;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 (bases 1 to 1984)
Karperien,M., Van Dijk,T.B., Hoeijmakers,T., Cremers,F.,
Abou-Samra,A.B., Boonstra,J., De Laat,S.W. and Defize,L.H.K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGTGATGTTTATTTACTTCCTGGCTACAATTATTATTGGATCCTGGTGGAAGGTCTCTA
                                                                                                                                                                                                                                                                                                                                                                          CCTGCATAATCTCATCTTTGTGGCTTTCTTTTCGGACACCCAAATACCTGTGGGGCTTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gcccatcctggcatctgttgtgctcaacttcatccttttatcaacatcatccgggtgct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1049 ACCGATCTTAGCAGCTATTGGGCTGAATTTTATTCTGTTTCTGAATACGGTTAGAGTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gctgctcaggtccacgttggtgctcgtgccgctctttggtgtccactacaccgtcttcat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1286 CITCITCAACICCTITCAGGGTTTCTTTGTGTCTATCATCTACTGCTACTGCAATGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ggtgcaggcagagattaggaagtcatggagccgctggacactggcgttggacttcaagcg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTTCAGGCAGAGGTGAAGAAGAAGATGTGGAGTCGGAGAATCTCCCGTGGACTGGAAAAG
tctggcttcacgctggatgaggccgagcgcctcacagaggaaga-gttgcacatcaccgc
                                                  696 GCTCACATAGGAGTAAAGGAGCTGGAGTCCCTAATAATGCAGGATGACCCACAAAATTCC
                                                                                                           756 ATTGAGGCAACTICTGTGGACAAT -- CACAATATA-T-CG--GG-TGCAAGATTGCTGT
                                                                                                                                                                                                                             gaccttcttcctcctacttcctggctaccaactactactggattctggtggaggggctgta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTGATAGGCTGGGGGTTTCCAGCAGCATTTGTTGCAGCATGGGCTGTGGGCACGAGCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tgccactaagcttcgggagaccaatgcgggccggtgtgacaccaggcagcagtaccggaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ggccttgccgtacaccgaggtctcagggacattgtggcagatccagatgcattatgagat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gctcttcaactccttccagggatttttgttgccatcatatactgtttctgcaatggtga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hormone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , parathyroid hormon
d peptide receptor;
d peptide;
d protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           caaagcacgaagtgggagtagcagctacagct 1558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACACCGCCATGTGGCAGCCGCAGATGCGGCT 1437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9474828
G-protein coupled receptor; parathyroid hormone related peparathyroid hormone-related peparathyroid hormone-related phouse mouse.

Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1984 bp M.musculus mRNA for pepentide receptor.
```

```
/organism="Homo sapiens"
/sequenced_mol="cDNA to mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9190721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                   1050
                                                                                                                                                                                                                                                                                                                                                                              1212
                                                                                                                                                                                                                                                                                                                                                                                                          1110
                                                                                                                                                                                                                                                                                                                                                                                                                                     1272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                             852
                                                                                                                                                                                                                                                               1092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1407
  969
                                                                                                                                                                                                                                                                                           990
                                                                                                                                                                                                                                                                                                                        1152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOURCE
                       g
                                                                                                                                           a
a
                                                                                                                                                                                               8
                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                  g
  à
                                                        ò
                                                                                     g
                                                                                                             à
                                                                                                                                                                        Qγ
                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                              /db_xref="PtD:9474829"
//translation="MGTARIAPSILALLICCPVLSSAYALVDADDVFTKEEDIFLLHRA
OAGCDKLLKEVLHTAANIMESDKGWTPASTSGKPRKEKAPGKFYPESKENKOPTGSR
RRGRPCLPEWDMIVGWPLGAEGEVVAPPCPDVIYDFNHKGHAYRRCDRNGSWEVVPGH
RRTWANYSECLKFMTNETREREVFDRIGMIYTVGYSMSLASILYBEELITIAQVPFRANCTRY
RNYIHMHKELSFRALARASIFVKAPAVYSGFTLDEABELTEERLITIAQVPFRANCTRY
GYAGCRYAYVTFFLYFLATNYWILVBGLYLHSLIFWAFFSEKKYLMGFTIFGWGLPAV
FVAVWGVRATLANTGCWDLSSGHKKMIJQVFILASVVLNFILFINTIRVLATKLERF
NGGRCRYAYVTFFLYFLATNYWILVPLEGYHYTVFWALFYTEVSGTLWGIQMITEMLERSF
GGFFVALIYCFCNGEVQAETRKSWSRWTLALDFKRRARSGSSSSSSSSSSTSGEMGAHTSVTNV
GFRAGLSLLASFLLASTTNGHSOLPGHAKPGAPAIENETIFVTMIVVFKDDGFLNGSC
SGLDEGASGSARPPPLLQEEWETVW"
                                                                                                                                                                                                                                             /product="parathyroid hormone/parathyroid hormone related
                                                                                                                                                                                                                                                                                                         related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10
             related peptide receptor mRNA in mouse postimplantation embryos indicates involvement in multiple developmental processes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        378 tgtctgccagagtgggacaacatcgtttgctggccattggggggcaccaggtgaagtggtg 437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   276 TGTTTCCCTGAATGGGATGGACTCATTTGTTGGCCCAGAGGAACAGTGGGGAAAATATCG 335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gcagtaccttgtcccgattacatttatgacttcaaccacaaaggccatgcctacagacgc 497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tgcgaccgcaatggcagctgggaggtggttccagggcacaaccggacgtgggccaactac 557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   558 agcgagtgcctcaagttcatg-a-cca---atgagactcgggaa-cgggaggtatttgac 611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     516 CGCCTCTATGTAAIGTATACCGTTGGCTACTCCATCTTTTTGGTTCCTTGGCTGTGGCT 575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         atgttcctgtcgtttatgctgcgcgcgcgagcatcttcgtgaaggacgctgtgctctac 791
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tctggcttcacgctggatgaggccgagcgcctcacggaggaagagttgcatatcatcgcg 851
 Expression pattern of parathyroid hormone/parathyroid hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                Direct Submission
Submitted (21-APR-1994) to the EMBL/GenBank/DDBJ databases.
Karperien, The Netherlands Inst. of Developmental, Biology,
Uppsalalaan 8, 3584 CT Utrecht, NETHERLANDS
Location/Qualifiers
                                                                                                                                                                                                                                                                                                       /product-"parathyroid hormone/parathyroid hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 246; DB 64; Length 1984;
Pred. No. 1.21e-242;
0; Mismatches 410; Indels 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  _
                                                                                                                                                                                                   /cell_type="embryonal carcinoma"
/cell_line="p19 EC"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         415 t
                                                                                                                                                                        /organism-"Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       573 g
                                                                                                                                                                                   /strain="C3H/HeHa"
                                                                                                                                                                                                                                                        peptide receptor"
57..1832
                                                                                                                                                                                                                                                                                                                     peptide receptor
                                                                                                                                                                                                                                                                                        /codon_start=1
                                                       (bases 1 to 1984)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 12.3%;
Best Local Similarity 63.7%;
Matches 746; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       559 C
                                                                      Karperien, M.
                                         Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polyA_site
                                                                                                                                                            source
                                                                                  TITLE
JOURNAL
                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     636
                                         JOURNAL
                                                                                                                                                                                                                              IRNA
                                                                                                                                                                                                                                                                           SGS
                                                                                                                                            FEATURES
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE ĈO
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
```

```
Eukaryotz, Animalia; Chordata; Vertebrata; Mammalia; Theria; Butheria; Primates; Haplorhin; Catarrhin; Hominidae.

1 (bases 1 to 1948)
Schipani,E., Karga,H., Karaplis,A.C., Potts,J.T., Kronenberg,H.M., Abou-Samra,A.-B.B., Segre,G.V. and Jueppner,H.
Identical complementary deoxyribonucleic acids encode a human renal and bone parathyroid hormone (PTH)PTH-related peptide receptor 93238641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ttggccaacactgggtgctgggacctgagctctgggcacaagaagtggatcatccaggtg 1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGGCTGATGCGAGGTGCTGGGAACTTAGTGCTGGAGCATCAAGTGGATTTATCAAGCA 1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1230 TGCCTGCCTCACTCCT---TCACTGGGCTCGGGTGGGATCCGCATGCACTGTGAGCTC 1286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1287 TTCTTCAACTCCTTTCAGGGTTTCTTTGTGTCTATCATCTACTGCTACTGCAATGGAGAG 1346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9tycaygcayaqattaygaaytettygayeegettyaacactygeattygaetteaayegt 1511
                                                                                                                                                                                                                                                                              ttacacagcctcatcttcatggcctttttctcagagaagaagtatctgggggcttcacc 1031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cccatcctggcatctgttgtgctcaacttcatcctctttatcaacatcatccgggtgctt 1211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ctgctcaggtccacgttggtgcttgtgccactcttcggtgtccactacaccgtcttcatg 1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     goottgccgtacaccgaggtctcagggacactgtggcagatccagatgcactatgagatg 1391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1347 GTTCAGGCAGAGGTGAAGAAGATGTGGAGTCGGTGGAATCTCTCCGTGGACTGGAAAAGG 1406
                                                                                                                                                                                                                                                                                                                                                                                           atcitiggcigggicigccggcigicticgiggcigigigggicggiggcagagcaacc 1091
                                                                                                                                                              870 CIGCATAATCICATCITIGIGGCTITCTITICGGACACCAAATACCIGIGGGGCTICAIC 929
                                                                                                                                                                                                                                                                                                                                                                                                                     930 TIGATAGGCTGGGGGTTTCCAGCAGCATTGTTGCAGCAGCAGGGCACGAGCAACT 989
                                                      GCTCACATAGGAGTAAAGGAGCTGGAGTCCCTAATAATGCAGGA-TGACCCCACAAAATTC 754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HUMPTHR 1948 bp mRNA PRI 03-NOV-1993
Human parathyroid hormone receptor mRNA, complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ctcttcaactccttccagggatttttgttgccatcatatactgttctgcaatggtgag
                                                                                         gccactaagcttcgggagaccaatgcgggccggtgtgacaccaggcagcagtaccggaag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cransmembrane protein.

Homo sapiens (library: Clontech) kidney cDNA to mRNA.

Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                glycoprotein; parathyroid hormone receptor; transmembrane protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    aaagcacgaagtgggagtagcagctacagct 1542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
1..1948
```

디

```
4396812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HSPHR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                  066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REMARK
REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE
FEATURES
                                                                                                                 1184
                                                                                                                                                                                                                                                                                                                    1364
                                                                                                                                                                                                                                                                                                                                                                                      1424
                                                                                                                                                                                                                                                                                                                                                                                                                                                     1484
                                                  1124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOURCE
                                                셤
                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                              g
                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                  ŝ
                                                                                                                                                  ò
                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                   ò
                                                               /product-"parathyroid hormone receptor"
/db_xref="PID:g190722"
/translation-"MGTMARIAPGLALLLCCPVLSSAYALVDADDVMTKEEQIFLLHRA
/translation-"MGTMARIAPGLALLLCCPVLSSAYALVDADDVWTKEEQIFLLHRA
OCCEMELKEVLORPSATARSDKGWTSASTSGKPRKDKASGKLYPESEEDKEAPTGSR
YRGRPCLPEWDHILCPASIANGAPCPDYIYDFNHKGHAYRRCDRNGSWELVPGH
NRTWANYSECVKFLTNETREREVFDRLGMIYTVGYSVSLASLTVAVLILAYFRRLHCT
                                                                                                                                                              RNYIHMHLFLSFWLRAVSIFVKDAVLYSGATLDEAERLTEEELRAIAQAPPPPPATAAA
SYAGCKAVATVFFLYFLATNYWILLVEGLYLHSILFMAFFSEKKYLWGFTYFGWDLDAV
FVAVWYSVRATLANTGCWDLSSGNKKNI IQVPILLASIVLNFILFINIVRVLATKIRET
NAGRCDTRQOYRKLLKSTLVLMPLFGVHYIVFMATPYTFVSGTLWQVQNHYEMENSE
                                                                                                                                                                                                                                QGFFVAIIYCFCNGEVQAEIKKSWSRWTLALDFKRKARSGSSSSYSYGPWYSHTSYTNV
GPRYGLGLPLSPRLLPTATTNGHPQLPGHAKPGTPALETLETTPPAMAAPKDDGFLNG
SCSGLDEEASGPERPPALLQEEWETVM"
                                                                                                                                                                                                                                                                                                                                                                    Gaps 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1064 ctggccaacaccgggttgctgggacttgagctccgggaacaaaaagtggatcatccaggtg 1123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ctgcacagcctcatcttcatggccttcttctcagagaagaagtacctgtggggcttcaca 1003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gtgeteatectggeetaetttaggeggetgeaetgeaegegeaaetaeateeaeatgeae 703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     getgtgeeetgteeggaetacatttatgaetteaateacaaaggeeatgeetaeegaege 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             530 agcgagtgtgtcaaatttct-ca-cca--atgagactcgtgaa-cgggaggtgtttgac 583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATT-GAGGCAACTIC-TGTGGACAAATCA-CAATATAT-CGGG-TGCAAGATTGCTGTT 809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          943
                                                                                                                                                                                                                                                                                                                                                                                                                                   276 IGTITCCCTGAATGGGATGGACTCAITIGTTGGCCCAGAGGAACAGTGGGGAAAATATCG 335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tgtgaccgcaatggcagctgggagctggtgcctgggcacaacaggacgtgggccaactac 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     636 TIATITIGIGICITICAIGCIGAGAGCIACAAGCAICTITGICAAAGACAGAGIAGICCAI 695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTGATAGGCTGGGGGTTTCCAGCAGCATTTGTTGCAGCATGGGCTGTGGCACGAGCAACT 989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ctgttcctgtccttcatgctgcgcgccgtgagcatcttcgtcaaggacgctgtgctctac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       884 accttcttctttacttcctggccaccaactactactggattctggtggaggggctgtac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTGTTCCATGCCCTCCTTATATTTATGACTTCAACCATAAAGGAGTTGCTTTCCGACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cgcctgggcatgatttacaccgtgggctactccgtgtccctggcgtccttaccgtagct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      696 GCTCACATAGGAGTAAAGGAGCTGGAGTCCCTAATAATGCAGGATGACC-CACAAAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gtetteggettggggtetgeeegetgtettegtggetgtgtgggteagtgteagagetaee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  456 TCAGACTGCCTTTCTGCAGCCAGATATCAGCATAGGAAAGCAAGAATTCTGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tctggcgccacgcttgatgaggctgagcgcctcaccgaggaggagctgcgccatcgcc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         caggogococogocotgocacogocogotgocogotacogogocogocogotgo
                                                                                                                                                                                                                                                                                                                                                                                                   tgtctgccggaatgggaccacatcctgtgctggccgctggggggcaccaggtgaggtggtg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     576 ATTCTCATCATTGGTTACTTCAGACGATTGCATTGCACTAGGAACTATATCCACATGCAC
                                                                                                                                                                                                                                                                                                                                                                    15;
                                                                                                                                                                                                                                                                                                                                  Length 1948;
                                                                                                                                                                                                                                                                                                                                  Score 242; DB 60; Length 19
Pred. No. 6.33e-238;
0; Mismatches 408; Indels
/tissue_type="kidney"
/tissue_lib="Clontech"
29..1810
                                                                                                                                                                                                                                                                                   ρ
                                                                                                                                                                                                                                                                                   570
                                                  /codon_start-1
                                                                                                                                                                                                                                                                                                                                  Query Match 12.1%;
Best Local Similarity 63.6%;
Matches 740; Conservative
                                                                                                                                                                                                                                                                                   U
                                                                                                                                                                                                                                                                                  009
                                                                                                                                                                                                                                                                                   BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                   350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       824
                                CDS
                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      පු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                      õ
```

```
QAQCEKRLKEVLQRPASIMESDKGWTSASTSCKPRKDKASGKLYPESEEDKEAPTGSR
YRGRPCLPEWDHILCWPLGAPGEVVAVPCPDYIYDFNHKGHAYRRCDRNGSWELVPGH
NRTWANYSECVKFLTNETREREVFDRLGMIYTVGYSVSLASLTVAVLILAYFRRLHCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryotae; mitochondrial eukaryotes; Metazoa/Eumycota group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Vertebrata; Gnathostomata; Osteichthyes; Sarcopterygil; Choanata; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Archonta; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /product="parathyroid hormone receptor"
/db_xref="PID:g396813"
/translation="MGTARIAPGLALLLCCPVLSSAYALVDADDVWTKEEQIFLLHRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RNY IHMHLFLSFMLRAVSIFVKDAVLY SGATLDEAERLTEEELRAIAQAPPPATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schneider,H., Feyen,J.H., Seuwen,K. and Movva,N.R.
Cloning and functional expression of a human parathyroid hormone
                                                                                                                                                                                                                                                                                                             1303
                                                                                                                                                                                                 1243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1423
1110 GCTACCAAAATCTGGGAGACCAATGCAGTTGGGCATGACAAGGAAGCAATACAGGAAA 1169
                                                                                                                                                                                                                                                                                                                                                                                                                             1363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gtacaagctgagatcaagaaatcttggagccgctggacactggcactggacttcaagcga 1483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (02-OCT-1992) to the EMBL/GenBank/DDBJ databases. Schneider, Preclinical Research, Sandoz Pharma AG, Bau 386
                                                                                                                                                                                                                                                                                                                                                                                                                       1304 gccacaccatacaccgaggtctcagggacgctctggcaagtccagatgcactatgagatg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1170 CIGGCCAAATCGACACTGGTCCTGGTCTTTGGAGTGCATACATCGTGTTCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                             1230 IGCCTGCCTCACTTCA-CTG-GGCTCGGG-TGGGAGATCCGCATGCACTGTGAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1244 ctgctcaaatccacgctggtgctcatgcccctctttggcgtccactacattgtcttcatg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ctcttcaactccttccagggattttttgtcgcaatcatatactgtttctgcaatggcgag
                                                                                    cocatoctggcotccattgtgctcaacttcatcctcttcatcaatatcgtccgggtgctc
                                                                                                                                                                                                    gccaccaagetgcgggagaccaacgccggccggtgtgacacacggcagcagtaccggaag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     coupled receptor; parathyroid hormone receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2095 bp RNA PRI mRNA for parathyroid hormone receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        receptor
Eur. J. Pharmacol. 246 (2), 149-155 (1993)
93387403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CH- 4002 Basel, SWITZERLAND sequence revised by author (17-AUG-1993)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /clone_lib="kidney cDNA"
/clone="pB-5, pA-19"
175..1956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1..2095
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        aaggcacgcagggagcagcag 1506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1407 ACACCGCCATGTGGCAGCCGCAG 1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  G-protein coupled rectionsmembrane domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (bases 1 to 209\overline{5})
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Schneider, H.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                H.sapiens 1
X68596
```

```
FVAVWVSVRATLANTGCWDLSSGNKKWIIQVPILASIVLNFILFINIYRVLATKLRET
NAGRCDTRQOTRKLLKSTLVLAPLFCYHYIVFMATPYTEVSGTLWQVQMHYBMLFNSF
QGFFVAIIYCFCNGEVQAETKSWSRWTLALDFRRKARSGSSSYSTGPMVSHTSVTNV
GPRYGGLGLPLGFPLLFTATHNGHPQLFGHARFGTPALETLETTPPAMAAPKDDGFLNG
SCSGLDBEASGPERPPALLQEEWETVM"
                                                                                                                                                                                                                                                                                                    Gaps 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ctggccaacaccgggtgctgggacttgagctccgggaacaaaaagtggatcatccaggtg 1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1090 ctgcacagcetcatettcatggcettettetcagagaagaagtacetgtggggettcaca 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1150 gtcttcggctggggtctgccggctgtcttcgtggctgtggggtcagtgtcagagctacc 1209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      990 CTGGCTGATGCGAGGTGCTGGGAACTTAGTGCTGGAGACATCAAGTGGATTTATCAAGCA 1049
                                                                                                                                                                                                                                                                                                                                                                                                                                            789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 810 GTGATGTTTATTTACTTCCTGGCTACAAATTATTATTGGATCCTGGTGGAAGGTCTCTAC 869
                                                                                                                                                                                                                                                                                                                                           tgictgccggaaigggaccacaiccgigcigggcgcgcigggggcaccaggigaggiggig 555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          396 IGTAACCCCAAIGGAACAIGGGATITIAIGCACAGCTIAAAIAAAACAIGGGCCAATIAT 455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 agcgagtgtgtcaaatttct-ca-cca--atgagactcgtgaa-cgggaggtgtttgac 729
                                                                                                                                                                                                                                                                                                                                                                                276 TGTTTCCCTGAATGGGATGGACTCATTTGTTGCCCCAGAGGAACAGTGGGGAAAATATCG 335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTCTCATCATTGTTACTTCAGACGATTGCATTGCACTAGGAACTATATCCACATGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ctgttcctgtccttcatgctgcgcgtgagcatcttcgtcaaggacgctgtgctctac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  caggegeeceegeeetgeeacegeetgeeggetaegegggetgeagggtggetgt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tgtgaccgcaatggcagctgggagctggtgcctgggcacaacaggacgtgggccaactac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAGACTGCCTTCGCTTTCTGCAGCCAGATATCAGCATAGGAAAGCAAGAATTCTGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cgcctgggcatgatttacaccgtgggctactccgtgtccctggcgtccctcaccgtagct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 790 gigotoalociggoclactitaggoggolgoacigoacgogoaaclacalocacalgoac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           636 ITAITIGIGICITICAIGCIGAGAGCIACAAGCAICITIGICAAAGACAGAGIAGICCAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCTCACATAGGAGTAAAGGAGCTGGAGTCCCTAATAATGCAGGATGACC-CACAAAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   755 CATT-GAGGCAACTTC-TGTGGACAAATCA-CAATATAT-CGGG-TGCAAGATTGCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1030 accttcttcctttacttcctggccaccaactactactggattctggtggaggggctgtac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        930 TTGATAGGCTGGGGGTTTCCAGCAGTTTGTTGCAGCATGGGCTGTGGGCACGAGCAACT
                                                                                                                                                                                                                                                                                                                                                                                                                       gotgtgccctgtccggactacatttatgacttcaatcacaaaggccatgcctaccgacgc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  910 tctggcgccacgcttgatgaggctgagcgcctcaccgaggaggagctgcgccatcgcc
                                                                                                                                                                                                                                                              Score 240; DB 55; Length 2095;
Pred. No. 1.44e-235;
0; Mismatches 409; Indels 15;
                                                                                                                                                                                    hormone receptor"
398 t
                                                                                                                                           /citation=[1]
250..1953
/product="parathyroid
644 c 616 g
                                                                                                                                                                                                                                                              Match 12.0%;
Local Similarity 63.5%;
les 739; Conservative
                                                                                                      175..249
                                                                                                                                                                                                        ø
                                                                                                                                                                                                        437
                                                                                                                        old_sequence
                                                                                                                                                                 mat_peptide
                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1210
                                                                                                                                                                                                                                                                                    st Loc
Eches
                                                                                                                                                                                                                                                                                                                                           496
                                                                                                                                                                                                                                                                                                                                                                                                                                                            336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              970
                                                                                                                                                                                                                                                                                                                                                                                                                       256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     616
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 윰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
```

```
/product="parathyroid hormone/parathyroid hormone related peptide receptor"
/db_xref="PID:9596130"
/translation="MOTARIAPGLALLICCPVLSSAYALVDADDVWTKEEQIFLLHRA QAQCEKRLKEVLQRPASIMESDKGWTSASTSGKPRKDKASGKLYPESEEDKEAPTGSR YRGROLDEPROHILGWPLGAPEDVPGHYRYDFWKGWARRRCDROKSWELVPGH NRTWANYSECWFLTNFTREEBEVFDRLGMYTVGYSYSLASLTVANILLAYFRELHCT RNYIHMHLFLSFMLRAVSIFVKDAVLXSGATLDEAERLITEEELRAIAQAPPPPATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GYAGCRVAVTFELYFLATNYYWILVEGLYLHSLIFMAFFSEKKYLWGFTVFGWGLPAV
FVAVWYSVRATLANTGCMDLSSGNKKWIJOYPILAGIVLNFTLFINIYRVLATKLRET
MARCDTROOYRKLLKSTLYMPLFGVYIVIVPWATPYTEVSGTLWQVOMHYEMLENSF
OGFFVAIIYCFCNGFYQAEIKKSWSRWTLALDFKRRARSGSSSYSVGPWASHTSVTNW
GPRVGLGLPLSPRLLPTATTNGHPQLPGHAKPGTPALETLETTPPAMAAPKDDGFLNG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryotae; Mitochondria; Eukaryote crown group; Metazoa/Eumycota group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Vertebrata; Gnathostomata; Testopoata; Terrapoa; Amniota; Mammalia; Theria; Eutheria; Archonta; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                             1110 GCTACCAAAATCTGGGAGACCAATGCAGTTGGGCATGACACAAGGAAGCAATACAGGAAA 1169
                                                                                                                                                   1170 cresccaarceacacrescrescresrecrasrerringasrescarracarcers 1229
                                                                                                                                                                                                         1450 gocacaccatacaccgaggtctcagggacgctctggcaagtccagatgcactatgagatg 1509
                                                                                                                                                                                                                                                         1230 TGCCTGCCTCACTCCTTCA-CTG-GGCTCGGG-TGGGAGATCCGCATGCACTGTGAGCTC 1286
                                                                                                                                                                                                                                                                                                               1510 ctcttcaactccttccagggattttttgtcgcaatcatatactgtttctgcaatggcgag 1569
                                                                                                                                                                                                                                                                                                                                                                                                                1570 gtacaagetgagateaagaaatettggageegetggacaetggeaetggaetteaagega 1629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1347 GITCAGGCAGAGGTGAAGAAGATGTGGAGTCGGTGGAATCTCTCCGTGGACTGGAAAAGG 1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (22-NOV-1994) Levine M. A., Johns Hopkins University School of Medicine, Medicine/Endocrine, 720 Rutland Avenue, Baltimore, MD 21205, USA Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HSU17418 2171 bp mRNA PRI 07-DEC-1994 Human parathyroid hormone/parathyroid hormone-related peptide receptor mRNA, complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Characterization of cDNA and Genomic DNA encoding the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bell"
  gccaccaagctgcgggagaccaacgccggccggtgtgacacacggcagtaccgcaag
                                                                                                        ctgotcaaatccacgctggtgctcatgcccctctttggcgtccactacattgtcttcatg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  from G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CDNA library
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note="PTH/PTHrP receptor"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone_lib="lambda gt10 /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /tissue_type="kidney"
219..2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1630 aaggcacgcagcgggagcagcag 1652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1407 ACACCGCCATGTGGCAGCCGCAG 1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1..2171
/clone="phPTHr"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 (bases 1 to 2171)
Levine, M. A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PTH/PTHrP receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Levine, M.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     U17418
9596129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                      1390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
1330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                ò
                                                                                                   셤
                                                                                                                                                      à
                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
423 ttcgtatgcctgcctcactccttcactgggctcgggtgggagatccgcatgcactgtgag 482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ..364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1..548
                                                                                                                                                                                                                                                                                                                                       Homo saplens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ๙
                                                                                                                                                                                                                                                                                                                                                                                                                                                 95318121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               144
                                                                                                                                                                                                                                                                                                          of 5
                                                                                                                                                                                                                                                                                                                           uman.
                                                                                                                                                                                                                        13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                   DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         intron
                                                                                                                                                                                                                                                                                                                      SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                              1614
                                                                                                                                                                              1407
                                        1554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                           KEYWORDS
SEGMENT
                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMMENT
                                                                                                                                                                                                                        RESULT
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                     셤
                                                                 ò
                                                                                          셤
                                                                                                                       ö
                                                                                                                                                  8
                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            å
                                                                                 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ctggccaacaccgggtgctgggacttgagctccgggaacaaaaagtggatcatccaggtg 1313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      954 tetgggggcacgettgatgaggetgaggggceteaccgaggaggaggggggggcategec 1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1194 gtcttcggctggggtctgccgctgtcttcgtggctgtgtgggtcagtgtcagagctacc 1253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      990 CTGGCTGATGCGAGGTGCTGGGAACTTAGTGCTGGAGACATCAAGTGGATTTATCAAGCA 1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cccatcctggcctccattgtgctcaacttcatcctcttcatcaatatcgtccgggtgctc 1373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1050 CCGATCTTAGCAGCTATTGGGCTGAATTTTATTCTGTTTCTGAATACGGTTAGAGTTCTA 1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1110 GCTACCAAAATCTGGGAGACCAATGCAGTTGGGCATGACACAAGGAAGCAATACAGGAAA 1169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1170 CTGGCCAAATCGACACTGGTCCTGGTCCTAGTCTTTGGAGTGCATTACATCGTGTTCGTG 1229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1494 gccacaccatacaccgaggtctcagggacgctctggcaagtccagatgcactatgagatg 1553
                                                                                                                                                                                                                                                                           720 agogaqtgtgtcaaatttct-ca-cca---atgagactcgtgaa-cgggaggtgtttgac 773 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 456 TCAGACTGCCTTCGCTTTCTGCAGCCAGATAGCAAGAAAGCAAGAATTCTGTGAA 515
                                                                                                                                                                                                                                                                                                                                                                                                                                                635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          808
                                                                                                           599
                                                                                                                                     335
                                                                                                                                                                 629
                                                                                                                                                                                          336 GCTGTTCCATGCCCTCCTTATATTATGACTTCAACCATAAAGGAGTTGCTTTCCGACAC 395
                                                                                                                                                                                                                     660 tgtgaccgcaatggcagctgggagctggtgcctgggcacaacaggacgtgggccaactac 719
                                                                                                                                                                                                                                                 833
                                                                                                                                                                                                                                                                                                                                                                575
                                                                                                                                                                                                                                                                                                                                                                                           893
                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                    1014 caggegeececegeetgeeacegeegetgeeggetaegegggetgeagggtggetgt
                                                                                                          540 tgtctgccggaatgggaccacatcctgtgctggccgctggggggcaccaggtgaggtgg
                                                                                                                                     276 TGTTTCCCTGAATGGGATGGACTCATTTGTTGGCCCAGAGGAACAGTGGGGAAAATATCG
                                                                                                                                                                 gctgtgccctgtccggactacatttatgacttcaatcacaaaggccatgcctaccgacgc
                                                                                                                                                                                                                                                                                                                                                                                           gtgctcatcctggcctactttaggcggctgcactgcacgcgcaactacatccacatgcac
                                                                                                                                                                                                                                                                                                                                                                                                           696 GCTCACATAGGAGTAAAGGAGCTGGAGTCCCTAATAATGCAGGATGACC-CACAAAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    755 CATT-GAGGCAACTIC-TGTGGACAAATCA-CAATATAT-CGGG-TGCAAGATTGCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              930 TTGATAGGCTGGGGGTTTCCAGCAGCATTGTTGCAGCATGGGCTGTGGCACGAGCAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1374 gccaccaagctgcgggagaccaacgccggccggtgtgacacacggcagcagtaccggaag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ctgctcaaatccacgctggtgctcatgcccttttggcgtccactacattgtcttcatg
                                                                                Indels 15;
                                                       Length 2171;
                                                     Score 240; DB 56; Lv
Pred. No. 1.44e-235;
0; Mismatches 409;
SCSGLDEEASGPERPPALLQEEWETVM"
                                                    Match 12.0%;
Local Similarity 63.5%;
les 739; Conservative
              658 c
              Ø
                                                       Query Match
              BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                          834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1434
                                                                                 Matches
                                                                                                                                                                 909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1254
                          ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                 음
                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                     ò
                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
```

```
Eukaryotae: mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.

(bases 1 to 548)
Usdin, T.B., Gruber,C. and Bonner,T.I.
Identification and functional expression of a receptor selectively recognizing parathyroid hormone, the PTH2 receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Submitted (25-JAN-1996) Tom I. Bonner, Lab of Cell Biology, NIMH, Bldg. 36, Rm 3A17, MSC 4090, Bethesda, MD 20892-4090, USA NCBI gi: 1256369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1230 TGCCTGCCTCACTCA-CTG-GGCTCGGG-TGGGAGATCCGCATGCACTGTGAGCTC 1286
                                                                                                1287 ITCTICAACTCCTITCAGGGTTTCTTTGTGTCTATCATCTACTGCTACTGCAATGGAGAG 1346
                                                                                                                                                                  gtacaagctgagatcaagaaatcttggagccgctggacactggcactggacttcaagcga 1673
                                                                                                                                                                                                                                                                                                                                          I 08-APR-1996
gene, exon 11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                          ctcttcaactccttccagggatttttgtcgcaatcatatactgtttctgcaacggcgag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 (bases 1 to 548)
Usdin,T.B., Modi,W. and Bonner,T.I.
Assignment of the human PTH2 receptor gene (PTHR2) to
2933 by fluorescence in situ hybridization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              951202
                                                                                                                                                                                                                                                                                                               ызгинU3 548 bp DNA
Human parathyroid hormone receptor (PTHR2)
U47127
g1256369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 140; DB 90; I
Pred. No. 1.94e-119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/clone_lib="Stratagene library
/map="2g33"
/map="2g33"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ă
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note-"total approx. 1.8 kb"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  138 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /gene="PTHR2"
/note="total approx. 9-12
/number=10
365..503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                        1674 aaggcacgcagcgggagcagcag 1696
                                                                                                                                                                                                                                             ACACCGCCATGTGGCAGCCGCAG 1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 (bases 1 to 548)
Bonner, T.I. and Usdin, T.B.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /gene="PTHR2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /gene="PTHR2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 7.0%;
Best Local Similarity 99.3%;
Matches 141; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'number=11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /number=11
```

```
Homo saplens
Medicaryotes; Metazoa; Chordata;
Vertebrata; Eutherla; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 744)
Usdin,T.B., Gruber,C. and Bonner,T.I.
Usdin,T.B., Gruber,C. and Bonner,T.I.
recognizing parathyroid hormone, the PFH2 receptor selectively recognizing parathyroid hormone, the PFH2 receptor
J. Biol. Chem. 270 (26), 15455-15458 (1995)
                                                             HSU47124 744 bp DNA PRI 12-APR-1996
Human parathyroid hormone receptor 2 (PTHR2) gene, exon 2, partial
                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (02-APR-1996) Tom I. Bonner, Lab of Cell Biology, NIMH, Bldg. 36, Rm 3A17, MSC 4090, Bethesda, MD 20892-4090, USA NCBI gi: 1262301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60 cagctggattctgatggcaccattactatagaggagcagattgtccttgtgctgaaagcg 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         162 CAGCTGGATTCTGATGGCACCATCACTATAGAGGAGCAGATTGTCCTTGTGCTGAAAGCG 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note="PTH2 receptor; G protein-coupled receptor; g1: 1262302"
                                                                                                                                                                                                                                                                                                        Chases 1 to 744)
Usdin.T.B., Modi.W. and Bonner,T.I.
Assignment of the human PTH2 receptor gene (PTHR2) to 2433 by fluorescence in situ hybridization
Unpublished
Chases 1 to 744)
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 744;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /product-"parathyroid hormone receptor 2"
/db_xref-"PID:g1262302"
/translation-"LDSDGTITIEEQIVL"
108..>744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 104; DB 90; Length 74
Pred. No. 4.21e-79;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120 aaagtacaatgtgaactcaacatcacagctcaactccaggaggag 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       222 AAAGTACAATGTGAACTCAAACATCACAGGGGAG 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /map="2q33"
/clone_lib="Stratagene 951202"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
1...744
/organism="Homo sapiens"
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        completed: Fri Feb 7 09:28:56 1997
ne : 1430 secs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       φ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   169
   1284 CTCTTCTTCAACTCCTTTCAGG 1305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /gene="PTHR2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /gene="PTHR2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /gene="PTHR2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /gene="PTHR2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 5.2%;
Best Local Similarity 99.1%;
Matches 105; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /number-2
161 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /number=2
<63..>107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'number=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    63..107
                                                                                                cds.
U47124
g1262301
                                                                                                                                                                                                                                                                                             95318121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   190
                                                                                                                                                        human.
                                               15
                                                                                                                                                      SOURCE
ORGANISM
                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
                                                                                                                                                                                                               REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                         AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Search cor
Job time
                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                           MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CDS
                                                                                                                                        KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMMENT
                                               RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1224 TTCGTGTGCCTCCCTCCTTCACTGGGCTCGGGTGGGAGATCCGCATGCACTGTGAG 1283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         aggaaactggccaaatcgacactggtcctggtcctagtctttggagtgcattacatcgtg 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                               1-548
Usdin T.B., Modi W., Bonner T.I.;
Assignment of the human PTH2 receptor gene (PTHR2) to chromosome
2933 by fluorescence in situ hybridization";
Unpublished.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (25-JAN-1996) to the EMBL/GenBank/DDBJ databases. Trom I. Bonner, Lab of Cell Biology, NIMH, Bldg. 36, Rm 3Al7, MSC 4090, Bethesda, MD 20892-4090, USA NCBI gl: 1256369
                                                                                                                                                                                                                                                                                                        MEDLINE; 95318121.
Usdin T.B., Gruber C., Bonner T.I.;
"Identification and functional expression of a receptor
selectively recognizing parathyroid hormone, the PTH2 receptor";
J. Biol. Chem. 270:15455-15458(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                             Eukaryota; Animalia; Metazoa; Chordata; Vertebrata; Mammalia;
Theria; Eutheria; Primates; Haplorhini; Catarrhini; Hominidae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 548;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Indels
                                                                                                                                                                 09-APR-1996 (Rel. 47, Created)
09-APR-1996 (Rel. 47, Last updated, Version 1)
Human parathyroid hormone receptor (PTHR2) gene, exon 11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1..548
/organism="Homo sapiens"
/clone_lib="Stratagene library 951202"
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /number=11
BP; 144 A; 132 C; 133 G; 138 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 140; DB 9; Lo
Pred. No. 1.94e-119;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note="total approx. 9-12 kb"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /gene="PTHR2"
/note="total approx. 1.8 kb"
                                                                                                                                      standard; DNA; PRI; 548 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                            1284 CTCTTCTAACTCCTTTCAGG 1305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ctcttcttcaactcctttcagg 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /gene="PTHR2"
/number=11
504..>548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /gene="PTHR2"
                                             483 ctcttcttcaactcctttcagg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 7.0%;
Best Local Similarity 99.3%;
Matches 141; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /map="2q33"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /number=10
365..503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bonner T.I., Usdin T.B.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <1..364
                                                                                                                                                                                                                       Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 548
                                                                                                                        LT 14
HSTHR03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           intron
                                                                                                                                                                                                                                                                                           -548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          exon
                                                                                                                     RESULT
ID HS
AC U4
DT 099
DT 099
DE HV
KW ·
                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
               ò
                                            윱
                                                                          à
```

chromosome

ö

Gaps

ö

This Page is inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

	u	BLACK BORDERS
j		IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
		FADED TEXT OR DRAWING
		BLURED OR ILLEGIBLE TEXT OR DRAWING
		SKEWED/SLANTED IMAGES
		COLORED OR BLACK AND WHITE PHOTOGRAPHS
		GRAY SCALE DOCUMENTS
		LINES OR MARKS ON ORIGINAL DOCUMENT
		REPERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
		OTHER:

IMAGES ARE BEST AVAILABLE COPY.
As rescanning documents will not correct images problems checked, please do not report the problems to the IFW Image Problem Mailbox

This Page Blank (uspto)